



EKSELANS BY ITS

# GENERAL CATALOG

ENTER THE EK WORLD  
EXCLUSIVELY FOR PROFESSIONALS

# 2025

v.1

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# ABOUT US



**SEDE CENTRAL**  
Sant Cugat del Vallès, Barcelona



**SEDE MADRID**  
Madrid



**DELEGACIÓN CANARIAS**  
Las Palmas G.C.



**CENTRO LOGÍSTICO**  
Sabadell, Barcelona



**OFICINAS I+D**  
-Madrid  
-Zaragoza  
-San Sebastián  
-Las Palmas G.C.



**LÍNEAS DE MONTAJE Y PRODUCCIÓN**  
-Barcelona  
- Las Palmas G.C.

**Ekselans by ITS (EK)** is the brand of ITS Partner, a Spanish industrial company that integrates four specialized firms focused on R&D activities, software engineering, electronic design, and the manufacturing of professional solutions for the telecommunications sector.

Since 2024, **ITS Partner** has been part of **CAE Groupe**, a leading French group in cabling and connectivity solutions, operating in diverse markets such as smart buildings (both commercial and residential), industrial, maritime and offshore, nuclear and infrastructure, military, healthcare, and entertainment.

Recently, the Spanish company **OPENETICS**, has also joined the group, specializing in the manufacturing of structured cabling solutions, fiber optics, rack cabinets, and PDUs, meeting the most demanding international quality standards. To learn more about **OPENETICS** product range, you can check their catalog at [www.openetics.com](http://www.openetics.com).



COMPLEMENTING EXPERTISE,  
MULTIPLYING IMPACT



## WHY CHOOSE US?

- 01**

European technology company with **a significant R&D investment**
- 02**

Face-to-face and online training programs (**EK Webinar Academy**)
- 03**

Best-in-class **technical support**
- 04**

Commercial approach exclusively **to professionals**
- 05**

Continuous business growth opportunities with **new technological solutions**
- 06**

Wide range of solution and real alternative **to others market players**
- 07**

Excellent **quality/price** relationship and great retail margins
- 08**

Continuous and qualified **commercial support**
- 09**

**Recognized reliability** throughout hundreds of **implemented projects**
- 10**

Full process support during **new projects deployment**. "Zero problems" policy

## THE EK RANGE

- 01**

SMATV
- 02**

Fiber and LAN
- 03**

Receivers, modulators and remote control extenders
- 04**

CM headend / transmodulators, encoders and streamers
- 05**

Hospitality and social health/ iptv servers/ chromecasting/ OTT and operators
- 06**

CATV/HFC optical transmission-reception
- 07**

DTT+SAT transmission over fiber optics
- 08**

GPON - solutions for hospitality, residential, industry and smart cities
- 09**

Signal Meter
- 10**

EKOAX I Ethernet over Coaxial
- 11**

Wifi, switches, 4g routers and lan cables
- 12**

HOTSPOT captive portal and network audit
- 13**

Sensors, IoT
- 14**

Video door entry and access control systems

## BUSINESS AREAS

- 01**

**SMATV distribution, fiber and data** in residential and building sector
- 02**

**Video Door Entry and Access Control**
- 03**

**Data network and television** integration. **Professional IPTV and OTT servers**
- 04**

**High-speed** communication networks in **tertiary sector**
- 05**

**High-speed** communication networks for **Industry 4.0**
- 06**

**Global telecommunication solutions** and **multiservice** in **hospitality sector**
- 07**

**Advanced network systems** for **Smart Cities**
- 08**

**Entertainment and remote assistance** solutions in **Healthcare sector**
- 09**

**Professional sensing** for industrial and **residential environments**

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Ek states that the products of this price list are those that appear in the technical data sheets of the same. Ek declines responsibility that could be derived from possible errors or omissions.

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The technical sheets, manuals, images and product declarations of conformity are available at **[www.ek.plus](http://www.ek.plus)**

**E** DISCONTINUED

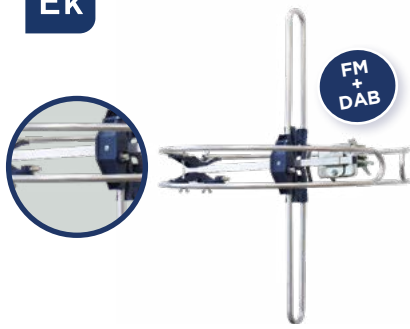
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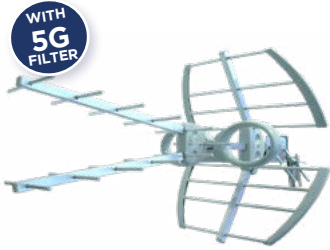
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SMATV



FM + DAB

FDAB BLUE



WITH 5G FILTER

EK 70 L2



WITH 5G FILTER

EK BLUE



WITH 5G FILTER

HIGHER DIMENSION. HIGHER GAIN

Ekblue<sup>MAX</sup>

Code	Reference	Description	Packaging unit quantity
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**OUTDOOR ANTENNAS**

**FM/DAB RADIO ANTENNAS**

011001	FM 1	FM antenna (87,5 - 108 MHz) omnidirectional with F connector. G: 1dB	6/24
011002	FM IN	FM antenna (87,5 - 108 MHz) omnidirectional with F connector. G: 1dB. Single packaging	1/6/24
012001	DAB 1	DAB antenna (195 - 223 MHz) omnidirectional with F connector G: 1dB	6/30
012002	DAB IN	DAB antenna (195 - 223 MHz) omnidirectional with F connector G: 1dB. Single packaging	1/6/24

**BLUE FM/DAB PREFIX + Easy U**

012003	FDAB BLUE	FM/DAB antenna (87,5 - 108 MHz/195 - 223 MHz) with two independent F-connectors. G: 1dB.	6/24
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**UHF ANTENNAS - easyU - 5G**

013012	EK MINI L2	UHF antenna LTE2 (470 - 694 MHz) with F connector. G: 12dB. High rejection 5G filter. Length 455 mm	6/144
013015	EK 70 L2	UHF antenna LTE2 (470 - 694 MHz) with F connector. G: 14,5dB. High rejection 5G filter. Length 745 mm	6/144
013031	DAP 22	Active / passive dipole compatible with EK MINI / EK 70. 22dB gain in active mode . Power supply 12 to 24Vdc.	3

**UHF ANTENNAS - PRE-FIX + easyU - 5G**

013023	EK BLUE	UHF antenna LTE2 (470-694 MHz) with F connector. G: 17 dB. High rejection 5G filter. Length 740 mm	6/120
013027	EK BLUE IN	UHF antenna LTE2 (470-694 MHz) with F connector. G: 17 dB. High rejection 5G filter. Individual packing	1/72
013033	EK BLUE MAX	UHF antenna LTE2 (470 - 694MHz) with F-connector G: 18.5dB. High rejection 5G filter. Length 980 mm	6/96
013108	DA BLUE	Active dipole + 20 dB for EK Blue. Power supply 12 to 24Vdc	3

# Ekblue

**PRE-FIX:** NEW PATENTED MOUNTING FOR A MUCH EASIER, COMFORTABLE AND SAFER INSTALLATION

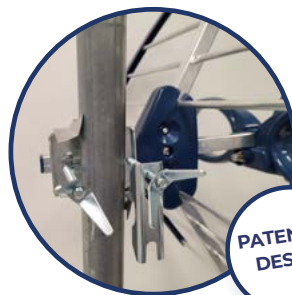
**EK BLUE:** toolless assembling in 5 clicks. Hyperbolic reflectors for an exceptional gain

**PRE-FIX:** holds the antenna on the pole mast by it's own weight

**easyU** quick wing nut slide-on for an easy fixing



Watch how easy is to assemble the Ek Blue



PATENTED DESIGN



Watch how Pre-fix will help you



PATENTED DESIGN



Watch how fast is easyU



### UHF ANTENNAS - PRE-FIX + easyU - 5G

013034	EK BLUE AP <b>N</b>	UHF active / passive antenna LTE2(470 - 694MHz) with F Connector. G: Active: 38dB / Passive: 16dB. High rejection 5G filter. 12-24Vdc power supply. Power adapter not included.	6/120
013028	EK BLUE ACTIVE	UHF active antenna LTE2 (470-694 MHz) with F connector. G: 38 dB. High rejection 5G filter. 12 - 24 Vdc power supply (not included)	6/120
013029	EK BLUE ACTIVE IN	UHF active antenna LTE2 (470-694 MHz) with F connector. G: 38 dB. High rejection 5G filter. 12 - 24 Vdc power supply (not included). Individual packing	1/72
013030	KITEKBLUEACTIVE	UHF active antenna LTE2 (470-694 MHz) with F connector. G: 38 dB. High rejection 5G filter. 12 - 24 Vdc power supply. FA QCF 242 power supply included. Individual packing	1/72



**EK BLUE ACTIVE IN**



**ODS 60 / ODS 82**

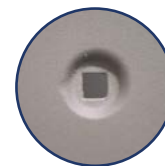


**OD60R\* / OD 80R / OD 80AL**

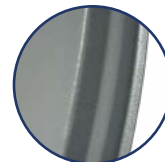
\*Single clamp



**ODS 60 / ODS 82 AZ/EL mount**



Square hole and carriage bolt



Triple bend reinforced edge



**OD 100 AZ/EL mount**

# Ekblue

active ▶

To all existing mechanical advantages of the EK Blue model, a revolutionary amplifier integrated into the antenna dipole is now added. Its low noise figure and its very high output level allows simultaneous reception of weak signals with very powerful ones without intermodulation, assuring an optimal signal quality. Its wide working range makes it 100% operational even with possible reception level variations. For any received signal in passive mode between 37dBuV and 85dBuV, EK Blue active will add a real gain of 20dB without any degradation of the received quality (MER). It includes an high rejection 5G filter.

### SATELLITE DISHES

#### STEEL SERIE

021045	ODS 60-1	Satellite offset dish 60 cm. G: 36,67dB (12,5 GHz). RAL 7035 Color. Individual packaging	1/20
021046	ODS 60-2	Satellite offset dish 60 cm. G: 36,67dB (12,5 GHz). RAL 7035 Color. Box of 2pcs	2/40
021042	ODS 60-10	Satellite offset dish 60 cm. G: 36,67dB (12,5 GHz). RAL 7035 Color. Box of 10pcs	10/100
021006	OD 60R-6	Satellite offset dish 60 cm with reinforced AZ/EL mount. G: 36,67dB (12,5 GHz). RAL 7035 Color. Box of 6 pcs.	6
021038	OD 60R-100	Satellite offset dish 60 cm with reinforced AZ/EL mount. G: 36,67dB (12,5 GHz). RAL 7035 Color. Pallet of 100 pcs.	100
021007	OD 80R-6	Satellite offset dish 80 cm with reinforced AZ/EL mount. G: 38,52dB (12,5 GHz). RAL 7035 Color. Box of 6 pcs.	6
021039	OD 80R-100	Satellite offset dish 80 cm with reinforced AZ/EL mount. G: 38,52dB (12,5 GHz). RAL 7035 Color. Pallet of 100 pcs.	100
021047	ODS 82-1	Satellite offset dish 82 cm G: 38,52dB (12,5 GHz). RAL 7035 Color. Individual packaging	1/15
021048	ODS 82-2	Satellite offset dish 82 cm G: 38,52dB (12,5 GHz). RAL 7035 Color. Box of 2 pcs	2/30
021026	ODS 82-10	Satellite offset dish 82 cm G: 38,52dB (12,5 GHz). RAL 7035 Color. Box of 10 pcs	10/100
021049	ODS 100-1	Satellite offset dish 100 cm G: 40,32dB (12,5 GHz). RAL 7035 Color. Individual packaging	1/10
021050	ODS 100-2	Satellite offset dish 100 cm G: 40,32dB (12,5 GHz). RAL 7035 Color. Box of 2 pcs	2/20
021051	ODS 100-3	Satellite offset dish 100 cm G: 40,32dB (12,5 GHz). RAL 7035 Color. Box of 3 pcs	3/30
021008	OD 100-3	Satellite offset dish 100 cm G: 40,32dB (12,5 GHz). Reinforced AZ/EL mount. RAL 7035 Color. Box of 3 pcs	3
021037	OD 100-25	Satellite offset dish 100 cm G: 40,32dB (12,5 GHz). Reinforced AZ/EL mount. RAL 7035 Color. Pallet of 25 pcs	25
021010	MFC 2	Multifeed for 2 LNBS	10

\* Unit price

#### ALUMINIUM SERIE

021031	OD 80 AL 6	Satellite offset dish 80 cm with reinforced AZ/EL mount. G: 38,52dB (12,5 GHz). RAL 7035 Color. Box of 6 pcs.	6
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#### SATELLITE DISH + LNB KIT

021055	KIT ODS 60-1	Satellite offset dish 60 cm. G: 36,67dB (12,5 GHz). RAL 7035 Color. LNB 11 included. Individual packaging	1/20
021056	KIT ODS 60-10	Satellite offset dish 60 cm. G: 36,67dB (12,5 GHz). RAL 7035 Color. LNB 11 included. Box of 10 pcs	10/40

\* Precio por unidad



M 250



GT



SP 32 / SP 32G / SP 40F



SP 40



LNB 11P



LNB 21P



LNB 21 MG

## MECHANICAL ACCESSORIES

## MASTS

025026	M 120-35	Stackable mast 1,2 m long, 35 x 1,5 mm	6
025027	M 120-40	Stackable mast 1,2 m long, 40 x 2 mm	4
025015	M 250	Stackable mast 2,5 m 35 x 1,5 mm	6

## CLAMPS AND FLANGES

025016	GT	L-shape bracket for studs. M8 flange	20
025017	GTP	350mm support bracket with plate for studs. M8 flange	25
025004	MR 8	Reinforced single clamp. Maximum diameter 68mm	50
025025	ACH	Chimney support bracket	15
025029	K ACH	Chimney protection kit for ACH support bracket	15

## TOWERS

025018	BFT	Tower Fixed base 180mm	1/4
025019	GR	Straight threaded hook (single unit)	1/24
025020	TIT 25	Intermediate tower section 2.5m 180mm	1
025021	TFT 25	Final tower section 2.5m 180mm	1
025030	TFT 12	Final tower section 1.2m 180mm	1
025024	KVT	Kit 25 m steel cable + cable ties + coupling	1

## SUPPORTS

025010	SP 32	Wall-mount support, zinc-plated steel. Diameter 32 mm. For OD 60/ODS 60	10
025012	SP 32G	Hot galvanized wall support. Diameter 32mm. For OD 60/ODS 60	10
025001	SP 35	Wall-mount support, zinc-plated steel, reinforced base. Diameter 35 mm. For OD 60/ODS 60/OD 80/ODS 82	20
025011	SP 40F	Wall-mount support, zinc-plated steel. Diameter 40 mm. For OD 80/ODS 82	10
025002	SP 40	Rotating wall-mount support, sendzimir tube. Diameter 40 mm. For OD 60/ODS 60/OD 80/ODS 82	6
025004	MR 8	Mast / balcony mount bracket for SP 32 / SP 32G / SP 35 / SP 40F / SP 40	50
025003	SP 50	Wall-mount support, hot-galvanised steel. Diameter 50 mm. For OD 100/ODS 100	4
025007	SS 60	Hot galvanized ground support. 60 mm diameter	1
025013	BFS	Fixed base for SS 60	1

## LNB'S

## PLL SERIES WITH LTE/4G FILTER

022028	LNB 11P	Single LNB. Input frequencies 10,7 - 11,7 GHz (L.O.: 9,75 GHz) / 11,7 - 12,75 GHz (L.O.: 10,6 GHz)	1/100
022029	LNB 21P	Twin LNB. Input frequencies 10,7 - 11,7 GHz (L.O.: 9,75 GHz) / 11,7 - 12,75 GHz (L.O.: 10,6 GHz)	1/50
022030	LNB 40P	Quad LNB. Input frequencies 10,7 - 11,7 GHz (L.O.: 9,75 GHz) / 11,7 - 12,75 GHz (L.O.: 10,6 GHz)	1/50
022026	LNB 21 MG	Multidegree MONOBLOCK LNB (adjustable). 1 output. Input frequencies 10,7 - 11,7GHz (L.O.: 9,75GHz) / 11,7 -12,75GHz (L.O.: 10,6GHz). Integrated DiSEqC switch	10/30

**DRO SERIES WITH LTE 4G FILTER AND DOUBLE SHIELD**
**DRO SERIE  
UNMATCHED  
QUALITY**

022017	DRO 10 G	Single LNB, DRO Technology. Input frequencies 10,7 - 11,7 GHz (L.O.: 9,75 GHz) / 11,7 - 12,75 GHz (L.O.: 10,6 GHz)	10/100
022018	DRO 20 G	Twin LNB, DRO Technology. Input frequencies 10,7 - 11,7 GHz (L.O.: 9,75 GHz) / 11,7 - 12,75 GHz (L.O.: 10,6 GHz)	10/60
022014	DRO 40 G	Quad LNB, DRO Technology. Input frequencies 10,7 - 11,7 GHz (L.O.: 9,75 GHz) / 11,7 - 12,75 GHz (L.O.: 10,6 GHz)	10/60
022019	DRO 80 G	Octo LNB, DRO Technology. Input frequencies 10,7 - 11,7 GHz (L.O.: 9,75 GHz) / 11,7 - 12,75 GHz (L.O.: 10,6 GHz)	10/40
022009	DRO 21 <b>E</b>	LNB MONOBLOCK 6° universal 1 output. DRO technology. Input frequencies 10,7 - 11,7 GHz (L.O.: 9,75 GHz) / 11,7 - 12,75 GHz (L.O.: 10,6 GHz). Integrated DiSEqC switch	1/50


**DRO 40G / DRO 44G**

**DRO 80G**

**LNB WB**

**LNB 40P - LNB 44P**
**SERIE SATCR - DCCS**

022025	LNB DCSS <b>N</b>	LNB DCSS 16 user bands	1/50
022022	LNB DCSS-L	LNB DCSS 16 user bands + 1 Legacy output (universal)	1/50
022032	LNB DCSS LTV <b>N</b>	DCSS LNB for 16 users + one Legacy output (universal) and TER mix input	1/50

**COLLECTIVE AND MULTI-SWITCHING SYSTEMS**

022031	LNB 44P	Quattro LNB for SMATV / multiswitches. PLL technology. 4 outputs HL-VL-HH-VH. Input frequencies 10,7 - 11,7 GHz (L.O.: 9,75 GHz) / 11,7 - 12,75 GHz (L.O.: 10,6 GHz)	1/50
022015	DRO 44 G	Quattro LNB for SMATV / multiswitches. 4 outputs HL-VL-HH-VH. DRO technology. Input frequencies 10,7 - 11,7 GHz (L.O.: 9,75 GHz) / 11,7 - 12,75 GHz (L.O.: 10,6 GHz)	10/60
022024	LNB WB	LNB Wideband. Input freq: 10,70-12,75 GHz. 2 outputs Horizontal - Vertical. Output freq: 290-2340 MHz. L.O. 10,41 GHz	1/50
022027	LNB WB 1040	LNB Wideband. Input freq: 10,70-12,75 GHz. 2 outputs Horizontal - Vertical. Output freq: 300-2350 MHz. L.O. 10,40 GHz	1/50


**CD 21**

**PMM**
**DiSEqC SWITCHES**

023001	CD 21	DiSEqC Switch for 2 LNBs. Frequency 950-2400 MHz. Insertion loss: <2dB	10/120
024001	PMM	Waterproof case for CD 21/MI 2 TS L2/RI 2	10/120
023004	CD 41	DiSEqC Switch for 4 LNBs with waterproof case. Frequency 950-2400 MHz. Insertion loss: <3 dB	10/60


**FE 690**
**FILTROS LTE - 5G**

031031	FI 694	Lte2 band rejection filter for indoor installation. Passband frequencies: 5-694 MHz. Rejection:> 60dB LTE 2. Allows Channel 48 passage	1/10/100
031030	FE 694E	Lte2 band rejection filter for outdoor installation. Passband frequencies: 5-694 MHz. Rejection:> 60dB LTE 2. Allows Channel 48 passage	10/60


**FI 694**

**Ek****A**  
CLASS

+10 dB

**QuiCoax****MQC TS****QuiCoax**  
CONNECTOR **F****MQCF TS****MI 2 TS L2 / RI 2****AM 361 EASY MAGNEK****AM 402 EASY MAGNEK****PATENTED  
EK FIXING  
SYSTEM**

Magnetic mount compatible with any mast support on the market



Working status LED

Access AM 361 EASY  
MAGNEK demo  
video**MIXERS/OUTDOOR SPLITTERS**

131005	MQC TS	Mixer/ demixer QuiCoax. 2 inputs TER-SAT. Insertion loss: 1dB (TER) / 1,5dB (SAT). DC pass in SAT input.	10/120
131006	MQCF TS	Mixer/ demixer QuiCoax/F. 2 inputs TER-SAT. Insertion loss: 1dB (TER) / 1,5dB (SAT). DC pass in SAT input.	10/120
131004	MI 2 TS L2	Mixer/ demixer 2 inputs: TER / SAT. Insertion loss: 1dB (TER) / 1,5dB (SAT). DC pass in SAT input.	10/120
141006	RI 2	2 outputs A class splitter. Passband: 5-2400 MHz. Insertion loss: 3,8dB (862 MHz) / 4,9dB (2400 MHz). All ports DC pass. All connectors in one side. Compatible with PMM (outdoor installation)	10/120
024001	PMM	Waterproof case for CD 21/MI 2 TS L2/RI 2	10/120
131002	MI 3 ICT	Mix / demix TER / SAT for ICT installations. 3 inputs: TER + 2 x SAT (950-2400 MHz). 2 outputs: TER + SAT 1 / TER + SAT 2. Insertion losses: 4dB (TER) / 2dB (SAT). Class A	10/100

**MAST AMPLIFIERS AND POWER SUPPLIES****EASY MAGNEK DTT 5G 24 VDC**

051030	AM 361 EASY MAGNEK	Mast amplifier 1 input: UHF (470-694MHz). G: 36dB. Output level (DIN 45004B): 114dB $\mu$ V. Working voltage: 24Vdc. With DC current passage in UHF input. With 5G High rejection filter	10/40
051017	AM 322 EASY MAGNEK	Mast amplifier 2 input: UHF (470-694MHz). G: 2x 32dB. Output level (DIN 45004B): 114dB $\mu$ V. Working voltage: 24Vdc. With DC current passage in UHF2 input. With 5G High rejection filter	10/40
051018	AM 402 EASY MAGNEK	Mast amplifier 2 input: VHF (47-230 MHz) UHF (470-694MHz). G: 28 dB (VHF) 38 dB (UHF). Output level (DIN 45004B): 114dB $\mu$ V. Working voltage: 24Vdc. Test output (-20 dB). With 5G High rejection filter	10/40

## easy magnek

- ✓ Patented and exclusive Ek magnetic clamping system
- ✓ Great ease of installation thanks to the built-in magnetic fixing system
- ✓ Easy, comfortable and safer to work at height
- ✓ One-handed mounting
- ✓ Compatible with any support or pole on the market
- ✓ With optimized ABS plastic enclosure with self-supporting lid and cable lock.
- ✓ Tilting amplifier for easy wiring
- ✓ High rejection 5G filter
- ✓ High output level avoiding intermodulation problems when using strong and weak signals
- ✓ Working status LED (except AM 361 EASY MAGNEK)
- ✓ Low noise factor

## EASY MAGNEK KIT

051038	KIT AM 311	Mast amplifier 1 input: UHF (470-694MHz). G: 35dB. Output level (DIN 45004B): 110dBuV. Working voltage: 24Vdc. With DC current passage in UHF input. With 5G High rejection filter. FA 24S power supply included	10/40
051032	KIT AM 361 easy mAgnek	Mast amplifier 1 input: UHF (470-694MHz). G: 36dB. Output level (DIN 45004B): 114dBuV. Working voltage: 24Vdc. With DC current passage in UHF input. With 5G High rejection filter. Includes QuiCoax/F multi-use 24Vdc power supply, reference FA QCF 242	10/40
051037	KIT AM 313 easy mAgnek	Mast amplifier 3 input: VHF(47-230MHz) / UHF (470-694MHz) / SAT (950-2200 MHz). G: 20dB (VHF) / 30dB (UHF) / -2dB (SAT). Output level (DIN 45004B): 112dBuV. Working voltage: 12-24Vdc. With DC current passage in SAT input. With 5G High rejection filter. FA QC 12 power supply 12Vdc included	10/40

## DTT 5G 24 Vdc

051024	AM 311 L2	Mast amplifier 1 input: UHF (470-694 MHz). G: 35dB / Output level (DIN 45004B): 110dBuV. Working voltage: 24 Vdc. With DC current passage in UHF input. With 5G High rejection filter	10/60
051026	AM 381 L2	Mast amplifier 1 input: UHF (470-694 MHz). G: 40dB / Output level (DIN 45004B): 114dBuV. Working voltage: 24 Vdc. Second output (TEST) -20dB. With DC current passage in UHF input. With 5G High rejection filter	10/60

## 24Vdc POWER SUPPLIES

052003	FA 24-S	Switched power supply. Output voltage: 24Vdc. Maximum current: 150mA. 2 outputs with F connector	10/60
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## 24 Vdc QuiCoax POWER SUPPLIES

053003	FA QC 24	Switched power supply. Output voltage: 24Vdc. Maximum current: 150mA. 1 output	10/60
053007	FA QC 242SC	Switched power supply with electrical cable terminal (without power cable). Output voltage: 24Vdc. Maximum current: 150mA. 2 outputs	10/60
163004	AQC F	Male QUICOAX adapter to F female	25/1000
059001	AMCD	DIN rail fixing accessory (for QuiCoax and amplifiers)	1/1000



KIT AM 361



AM 311 L2 / AM 381 L2



FA 24S



FA QC 24



FA QC 242SC



Example of DIN rail mounting

## NEW MULTI-PURPOSE POWER SUPPLIES

- ✓ High performance switched power supply
- ✓ Ultra compact size
- ✓ The only power supply in the market that fits in 80x80mm connection boxes
- ✓ Wall mount or DIN rail mounting without additional accessories
- ✓ **Multi-purpose system:** option for state-of-the-art **QuiCoax connection** or **F connectors** (adapters included in the packaging)



## NEW MULTI-PURPOSE POWER SUPPLIER QUICOAX F / DIN-RAIL MOUNTING

053008	FA QCF 242	Switched power supply. Output voltage: 24Vdc. Maximum current: 150mA. 2 outputs	10/60
053009	FA QCF 242SC	Switched power supply with electrical cable terminal (without power cable). Output voltage: 24Vdc. Maximum current: 150mA. 2 outputs	10/60



AM 313 EASY MAGNEK



FA 12 MINI



FA QC 12



MCA 402 L2



CA 422 L2



CA 383 L2

**EASY MAGNEK DTT 5G + SAT SINGLE CABLE**

051019	AM 313 EASY MAGNEK	Mast amplifier 3 input: VHF (47-230 MHz) / UHF (470-694MHz) / SAT (950 - 2200 MHz). G: 20 dB (VHF) / 30dB (UHF) / -2 dB (SAT). Output level (DIN 45004B): 112dBµV. Working voltage: 12-24Vdc. With DC current passage in SAT input. With 5G High rejection filter	10/40
051020	AM 283 EASY MAGNEK	Mast amplifier 3 input: VHF/UHF (47-230 / 470-694 MHz) / UHF (470-694MHz) / SAT (950 - 2200 MHz). G: 20/26 dB (VHF-UHF) / 26dB (UHF) / -2 dB (SAT). Output level (DIN 45004B): 112dBµV. Working voltage: 12-24Vdc. With DC current passage in SAT input. With 5G High rejection filter	10/40

**DTT + SAT SINGLE CABLE POWER SUPPLY**

052005	FA 12 MINI	Switching power supply. Output voltage: 12Vdc. Maximum current: 250mA. LNB power supply (13-18Vdc/22kHz). 1 output with F connector	10/60
166001	RFF	Quick F to 2 F connector splitter for FA 12 MINI	50/400

**12 VDC QUICOAX POWER SUPPLY FOR DTT + SAT SINGLE CABLE**

053001	FA QC 12	Switched power supply. Output voltage: 12Vdc. Maximum current: 300mA. LNB power supply (13-18Vdc/22KHz). 1 output	10/60
053006	FA QC 12SC	Switched power supply with electrical cable terminal (without power cable). Output voltage: 12Vdc. Maximum current: 300mA. LNB power supply (13-18Vdc/22KHz). 1 output	10/60
163004	AQC F	Male QUICOAX adapter to F female	25/1000
059001	AMCD	DIN rail fixing accessory (for QuiCoax and amplifiers)	1/1000

**WIDE-BAND MICRO AMPLIFIERS 5G**

061008	MCA 402 L2	Micro amplifier 2 inputs: VHF (47-230MHz) / UHF (470-694MHz) with SAW filter. G: 32dB (VHF) / 40dB (UHF) / Output level (DIN 45004B): 117dBµV (VHF) / 114dBµV (UHF). With switchable 12Vdc power supply in UHF input. A class. With 5G High rejection filter	10/60
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**WIDE-BAND COMPACT AMPLIFIERS 5G**

**DTT 5G**

062007	CA 422 L2	Broadband amplifier 2 inputs: VHF (47-230 MHz) / UHF (470-694 MHz). G: 30dB (VHF) / 42dB (UHF). Output level (DIN 45004B): 117dBµV. Switchable 12Vdc power supply in UHF input. TEST: -30dB. A Class. With 5G High rejection filter	6/24
062006	CA 383 L2	Broadband amplifier 3 inputs: VHF (47-230 MHz) / UHF (470-694 MHz) / UHF (470-694 MHz). Independent amplification VHF-UHF. G: 30dB (VHF) / 2x38dB (UHF). Output level (DIN 45004B): 117dBµV. Switchable 12 Vdc power supply in UHF input. TEST: -30dB. A Class. With 5G High rejection filter	6/24

**DTT 5G + SAT SINGLE CABLE**

062008	CA 402 L2 SAT	Broadband amplifier 3 inputs: VHF (47-230 MHz) / UHF (470-694 MHz) / SAT (950-2200 MHz). G: 30dB (VHF) / 40dB (UHF) / 34-40dB (SAT). Output level (DIN 45004B): 116dBuV (VHF) / 116dBuV (UHF) / 119dBuV (SAT). Switchable 12Vdc power supply in UHF input and 13Vdc LNB power supply in SAT input. A Class. With 5G High rejection filter	6/24
059001	AMCD	DIN rail fixing accessory (for QuiCoax and amplifiers)	1/1000



CA 403



CA 374



CA 482 L2



CA 453 L2



CA 455 L2 SAT



2.1mm Jack connector for redundant power supply

**HIGH-POWER WIDE-BAND AMPLIFIERS 5G**

**DTT 5G**

062009	CA 403	Broadband amplifier 3 inputs: FM / BIII-DAB / UHF (470-694MHz). G: 24dB (FM) / 33dB (BIII-DAB) / 45dB (UHF). Output level (DIN 45004B): 120dBuV. With switchable 12/24Vdc power supply on UHF input. TEST: -30dB. A class. With 5G High rejection filter	10
062010	CA 374	Broadband amplifier 4 inputs: FM / BIII-DAB / UHF1/UHF2 (470-694MHz). G: 24dB (FM) / 33dB (BIII-DAB) / 41dB (2xUHF). Output level (DIN 45004B): 120dBuV. With switchable 12/24Vdc power supply on UHF inputs. TEST: -30dB. A class. With 5G High rejection filter	10
063004	CA 482 L2 <b>N</b> MARCH 2025	Broadband amplifier with 2 Inputs: VHF (47-233MHz) / UHF (470-694MHz). Gain: 30dB (FM) / 35dB (BIII-DAB) / 48dB (UHF). Output Level (DIN 45004B): 122dBuV. 12/24Vdc switchable power supply on UHF input. TEST: -30dB. Class A. High rejection 5G filter. Optional redundant power supply.	6
063006	CA 453 L2 <b>N</b> MARCH 2025	Broadband amplifier. 3 Inputs: VHF (47-232MHz) / UHF 1 (470-694MHz) / UHF 2 (470-694MHz). Gain: 30dB (FM) / 35dB (BIII-DAB) / 44dB (2xUHF). Output Level (DIN 45004B): 124dBuV. 12/24Vdc switchable power supply on UHF inputs. TEST: -30dB. Class A. High rejection 5G filter. Optional redundant power supply.	6
071010	FA 2600P	External power supply for redundancy in CA 482 L2, CA 453 L2, and CA 455 L2 SAT.	1/50

**DTT 5G + SAT UP TO 30 WALL SOCKETS**

062011	CA 374 SAT	Broadband amplifier 5 inputs: FM / BIII-DAB / UHF1 / UHF2 (470-694MHz) / SAT. G: 24dB (FM) / 33dB (BIII-DAB) / 40dB (2 x UHF) / 40dB (SAT). Output level (DIN 45004B): 120dBuV. With switchable 12/24Vdc power supply on UHF inputs and 13Vdc LNB power supply on SAT input. TEST: -30dB. A class. With 5G High rejection filter	10
063008	CA 455 L2 SAT <b>N</b> APRIL 2025	Broadband amplifier with 5 Inputs: FM / BIII-DAB / UHF 1 (470-694MHz) / UHF 2 (470-694MHz) / SAT. Gain: 30dB (FM) / 35dB (BIII-DAB) / 44dB (2xUHF) / 40dB (SAT). Output Level (DIN 45004B): 122dBuV. 12/24Vdc switchable power supply on UHF inputs and 13Vdc LNB power supply on SAT input. TEST: -30dB. Class A. High rejection 5G filter. Optional redundant power supply.	6

**SAT AMPLIFIERS WITH TER MIX**

170006	MAD 382 L2	Micro amplifier 2 inputs: TER (47-694 MHz) / SAT (950-2200 MHz). G: -1dB (TER) / 31dB (950 MHz) / 38dB (2150 MHz). Output level (DIN 45004B/ IMD-35dB): 120dBuV. 13Vdc LNB power supply. A Class	10/60
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MAD 382 L2

Ek

N



NOVUS MAST

N



FA 12S 500

N



NOVUS

N



NOVUS PRO



2.1mm Jack connector for redundant power supply (NOVUS PRO & NOVUS PRO ICT)

N



NOVUS PRO ICT



Discover all the details of the Novus Series

DIGITAL PROGRAMMABLE AMPLIFIER NOVUS SERIE

MAST SERIES

071022	NOVUS MAST N Abril	Amplifier with 32 ultra-selective UHF filters. 1 UHF input (G>40dB) / 1 UHF input with internal preamplifier (G>50dB) / 1 FM-DAB-BIII input (G>12dB). Preamplifier power supply (12V). Output level: 94dBμV <sup>(1)</sup> (DIN 45004B). TEST output usable as a second output. Automatic programming and individual filter adjustment via Visual Mode (Patent pending).	1/12
052007	FA 12S 500 N Abril	Switched power supply. Output voltage: 12Vdc. Maximum current: 500mA. 2 outputs with F connector	1/10

(1) 86dBμV for 10 MUX

INDOOR SERIES

071023	NOVUS N Marzo	Amplifier with 32 ultra-selective UHF filters. 1 UHF input (G>55dB) / 1 UHF input with internal preamplifier (G>65dB) / 1 FM-DAB-BIII input (G>12dB). Preamplifier power supply (12V). Output level: 113dBμV <sup>(2)</sup> (DIN 45004B). Automatic programming and individual filter adjustment via Visual Mode (Patent pending). Installation fault detection through Test Mode.	1/15
071020	NOVUS PRO N	Amplifier with 32 ultra-selective UHF filters. 1 UHF input (G > 65dB), 1 UHF input with internal preamplifier (G > 75dB), 1 configurable UHF input for DAB (G > 65dB), 1 FM input (G > 28dB). Preamp power supply: 12V/24V. Output level: 124 dBμV <sup>(3)</sup> (DIN 45004B). Automatic programming and individual filter adjustment using Visual Mode (Patent pending). Fault detection in the installation via Test Mode. Redundant power supply (optional).	1/10
071021	NOVUS PRO ICT N	Amplifier with 32 ultra-selective UHF filters. 1 UHF input (G > 60dB), 1 UHF input with internal preamplifier (G > 70dB), 1 UHF input configurable for DAB (G > 60dB), 1 FM input (G > 28dB), 1 SAT input (G > 35dB). Preamp power supply: 12V/24V. Output level: TER 120dBμV <sup>(4)</sup> (DIN 45004B) / SAT 119dBμV (IMD -35dB). Automatic programming and individual filter adjustment using Visual Mode (Patent pending). Fault detection in the installation via Test Mode. Redundant power supply (optional).	1/10
071010	FA 2600P	External power supply for redundancy in NOVUS PRO and NOVUS PRO ICT	1/50

(2) 105dBμV for 10 MUX / (3) 116dBμV for 10 MUX / (4) 112dBμV for 10 MUX

NOVUS SERIE

The new generation of programmable amplifiers with **advanced** and **patented modes** that redefine the standard.

PATENTED DESIGN by Ek

- VISUAL Mode
- Spectrum Mode
- TEST Mode
- STATUS Model
- HQ
- High-quality OLED screen
- Intuitive configuration via multi-directional joystick
- Manual and automatic programming
- Independent output level configuration for each MUX
- Channel conversion
- New hardware with top-quality and highly reliable components
- Input for redundant power supply
- Extended warranty (\*)

(\*) Register at [www.ek.plus](http://www.ek.plus)



- 01**



Reduce to minimum installation time
- 02**



No need of tools
- 03**



Guarantees an excellent connected and minimizes the space
- 04**



Eliminate the use of connectors and associated costs
- 05**



QuiCoax, the new Standard of Connection



Multiswitch QuiCoax



F type connection conversion with AQC-F adapter

- ✓ High shielding quicoax zamak housing
- ✓ Low power consumption. External power supply only for Inb
- ✓ Power supply can be installed at any multiswitch of the cascade
- ✓ DC PASS on SAT trunk input/output
- ✓ Selectable DC PASS ON/OFF on terrestrial line for pre-amplifiers
- ✓ Very easy to install, few seconds needed
- ✓ Fast QuiCoax connection, no connectors needed
- ✓ **Latest generation QuiCoax system for the easiest connection**

**QuiCoax MULTISWITCHES 4 POLARITIES + TER STANDALONE**

090013	MS QC 512*	Multiswitch stand-alone/end-cascade. 5 inputs (4 SAT + 1 TER). 12 users outputs. Tap loss: SAT <3dB / TER 17dB. With return path. EKOAX compatible.	1/24
090029	MS QC 516E*	Multiswitch stand-alone/end-cascade. 5 inputs (4 SAT + 1 TER). 16 users outputs. Tap loss: SAT <6dB / TER 21dB. With return path. EKOAX compatible.	1/15
090016	MS QC 520* <b>E</b>	Multiswitch universal standalone/end-cascade. 5 inputs (4 SAT + 1 TER). 20 users outputs. Tap loss: SAT <3dB/TER 20dB. With return path on passive TER mode. EKOAX compatible.	1/10
090030	MS QC 520E*	Multiswitch stand-alone/end-cascade. 5 inputs (4 SAT + 1 TER). 20 users outputs. Tap loss: SAT <6dB / TER 23dB. With return path. EKOAX compatible.	1/15
090017	MS QC 524*	Multiswitch stand-alone/end-cascade. 5 inputs (4 SAT + 1 TER). 24 users outputs. Tap loss: SAT <6dB / TER 21dB. With return path. EKOAX compatible.	1/10
090018	MS QC 528*	Multiswitch stand-alone/end-cascade. 5 inputs (4 SAT + 1 TER). 28 users outputs. Tap loss: SAT <6dB / TER 22dB. With return path. EKOAX compatible.	1/10
071006	FA 1210	Power supply 12 Vdc / 1000 mA	1/100
071010	FA 2600P	Power supply 12Vdc / 2600mA	1/50

\* Power supply not included

**QuiCoax MULTISWITCHES 4 POLARITIES + TER CASCADABLE**

090011	MS QC 585*	Multiswitch stand-alone/cascade. 5 inputs (4 SAT + 1 TER). 8 users output. 5 trunk line outputs. Insertion loss <3dB. Tap loss: SAT <3dB / TER (Passive) 21dB. With return path. Compatible with standalone multiswitch. Compatible with EKOAX.	1/24
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\* Power supply not included



MS QC 58



MS QC 520E



MS QC 585

Ek



MS QC 515D



MS QC 916



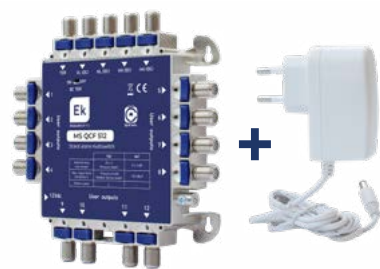
MS QC 989



AMP QC 55



CQC 75A



MS QCF 512 + FA 1210

### QuiCoax MULTISWITCHES 4 POLARITIES + TER DCSS CASCADABLE

090014	MS QC 515D*	Multiswitch stand-alone/cascade. 5 inputs. 4 SAT (2 X Wideband or 1 x Quattro LNB) + 1 TER. 1x16 dCSS user-bands. 5 trunk line outputs. Insertion loss <3dB. With return path. Compatible with EKOAX.	1/24
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\* Power supply not included

### QuiCoax MULTISWITCHES 8 POLARITIES +TER STANDALONE

090031	MS QC 98*	Multiswitch stand-alone/end-cascade. 9 inputs (8 SAT + 1 TER). 8 users outputs. Tap loss: SAT <3dB / TER (Passive) <16dB. Output level: SAT (DIN 45004B -35dBc) 100dBµV. With passive return path. EKOAX compatible.	1/15
090032	MS QC 916*	Multiswitch stand-alone/end-cascade. 9 inputs (9 SAT + 1 TER). 16 users outputs. Tap loss: SAT <3dB / TER (Passive) <21dB. Output level: SAT (DIN 45004B -35dBc) 100dBµV. With passive return path. EKOAX compatible.	1/15
071006	FA 1210	Power supply 12 Vdc / 1000 mA	1/100
071010	FA 2600P	Power supply 12Vdc / 2600mA	1/50

\* Power supply not included

### QuiCoax MULTISWITCHES 8 POLARITIES +TER CASCADABLE

090033	MS QC 989*	Multiswitch stand-alone/cascade. 9 inputs (8 SAT + 1 TER). 8 users output. 9 trunk line outputs. Insertion loss <3dB. Tap loss: SAT <3dB / TER (Passive) <23dB. Output level: SAT (DIN 45004B -35dBc) 100dBµV. With passive return path. EKOAX compatible.	1/15
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\* Power supply not included

### QuiCoax CASCADABLE AMPLIFIERS

090034	AMP QC 55*	Multiswitch cascading amplifier, 5 inputs/outputs. Input TV 20dB / 104dBµV. Inputs 4xSAT 23dB / 110dBµV.	1/10
090035	AMP QC 99*	Multiswitch cascading amplifier, 9 inputs/outputs. Input TV 20dB / 104dBµV. Inputs 8xSAT 23dB / 110dBµV.	1/10

\* Power supply not included

### ACCESSORIES

163008	CQC 75A	75 Ohm isolated terminal load for QUICOAX devices	25/1000
163004	AQC F	Male QUICOAX adapter to F female	25/1000

### STANDALONE MULTI-PURPOSE QuiCoax F MULTISWITCHES. 4 POLARITIES + TER

090036	MS QCF 58*	Multiswitch stand-alone/end-cascade. 5 inputs (4 SAT + 1 TER). 8 users outputs. Tap loss: SAT <3dB / TER 15dB. With return path. EKOAX compatible.	1/10
090037	MS QCF 512*	Multiswitch stand-alone/end-cascade. 5 inputs (4 SAT + 1 TER). 12 users outputs. Tap loss: SAT <3dB / TER 17dB. With return path. EKOAX compatible.	1/10
090038	MS QCF 516*	Multiswitch stand-alone/end-cascade. 5 inputs (4 SAT + 1 TER). 16 users outputs. Tap loss: SAT <6dB / TER 21dB. With return path. EKOAX compatible.	1/10
090039	MS QCF 520*	Multiswitch stand-alone/end-cascade. 5 inputs (4 SAT + 1 TER). 20 users outputs. Tap loss: SAT <6dB / TER 23dB. With return path. EKOAX compatible.	1/10
090040	MS QCF 524*	Multiswitch stand-alone/end-cascade. 5 inputs (4 SAT + 1 TER). 24 users outputs. Tap loss: SAT <6dB / TER 21dB. With return path. EKOAX compatible.	1/10
090041	MS QCF 528*	Multiswitch stand-alone/end-cascade. 5 inputs (4 SAT + 1 TER). 28 users outputs. Tap loss: SAT <6dB / TER 22dB. With return path. EKOAX compatible.	1/10

\* FA 1210 power supply included

### CASCADE MULTI-PURPOSE QUICOAX F MULTISWITCHES. 4 POLARITIES + TER

090042	MS QCF 585*	Multiswitch stand-alone/cascade. 5 inputs (4 SAT + 1 TER). 8 users output. 5 trunk line outputs. Insertion loss <3dB. Tap loss: SAT <3dB / TER (Passive) 21dB. With return path. Compatible with standalone multiswitch. Compatible with EKOAX.	1/12
090043	MS QCF 515D*	Multiswitch stand-alone/cascade. 5 inputs. 4 SAT (2 X Wideband or 1 x Quattro LNB) + 1 TER. 1x16 dCSS user-bands. 5 trunk line outputs. Insertion loss <3dB. With return path. Compatible with EKOAX.	1/12

\* Power supply **not** included

### KIT CASCADE MULTI-PURPOSE QuiCoax F MULTISWITCHES. 4 POLARITIES + TER

090049	KIT MS QCF 515D	Kit with LNB Wide Band 1040, Multiswitch MS QCF 515D and FA 1210 power supply	1/12
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### Multi-purpose star MULTISWITCHES QuiCoax F 8 polarities + TER

090045	MS QCF 98*	Multiswitch stand-alone/end-cascade. 9 inputs (8 SAT + 1 TER). 8 users outputs. Tap loss: SAT <3dB / TER (Passive) <16dB. Output level: SAT (DIN 45004B -35dBc) 100dB $\mu$ V. With passive return path. EKOAX compatible.	1/10
090046	MS QCF 916*	Multiswitch stand-alone/end-cascade. 9 inputs (9 SAT + 1 TER). 16 users outputs. Tap loss: SAT <3dB / TER (Passive) <21dB. Output level: SAT (DIN 45004B -35dBc) 100dB $\mu$ V. With passive return path. EKOAX compatible.	1/10

\* FA 1210 power supply included

### Cascade multi-purpose QuiCoax F multiswitches. 8 polarities + TER

090044	MS QCF 989*	Multiswitch stand-alone/cascade. 9 inputs (8 SAT + 1 TER). 8 users output. 9 trunk line outputs. Insertion loss <3dB. Tap loss: SAT <3dB / TER (Passive) <23dB. Output level: SAT (DIN 45004B -35dBc) 100dB $\mu$ V. With passive return path. EKOAX compatible.	1/10
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\* Power supply **not** included

### MULTI-PURPOSE CASCADE AMPLIFIERS QUICOAX F

090047	AMP QCF 55*	Multiswitch cascadable amplifier, 5 inputs/outputs. Input TV 20dB / 104dB $\mu$ V. Inputs 4xSAT 23dB / 110dB $\mu$ V.	1/10
090048	AMP QCF 99*	Multiswitch cascadable amplifier, 9 inputs/outputs. Input TV 20dB / 104dB $\mu$ V. Inputs 8xSAT 23dB / 110dB $\mu$ V.	1/10

\* Power supply **not** included

### Multi splitters for multiswitch installations. Multi-purpose QuiCoax F. 4/8 polarities+TER

090050	MR 525	Multi Splitter 5 inputs and 2 x 5 outputs Passband: 5-2400MHz. Insertion loss: 3.8dB (862MHz) / 4.9dB (2400MHz). With DC current pass-through. Class A +10dB	1/10
090051	MR 929	Multi Splitter 9 inputs and 2 x 9 outputs Passband: 5-2400MHz. Insertion loss: 3.8dB (862MHz) / 4.9dB (2400MHz). With DC current pass-through. Class A +10dB	1/10

### Multi taps for multiswitch installations. Multi-purpose QuiCoax F. 4/8 polarities+TER

090052	MD 555-24	Multi Tap 5 inputs, 5 taps and 5 trunk outputs. Passband: 5-2400MHz. Tap attenuation: 24dB. Insertion loss: 0.8dB (862MHz) / 2dB (2400MHz). With DC current passage in trunk line. Class A +10dB	1
090053	MD 555-20	Multi Tap 5 inputs, 5 taps and 5 trunk outputs. Passband: 5-2400MHz. Tap attenuation: 20dB. Insertion loss: 1dB (862MHz) / 2,2dB (2400MHz). With DC current passage in trunk line. Class A +10dB	1

QuiCoax® F  
CONNECTOR



MS QCF 585



MS QCF 515D



MS QCF 989



AMP QCF 55



MR525

MULTI  
SPLITTER

MULTI  
TAP

MD 555-16



MD 999-12



MI 3 ICT



AC 118R



ALS 24

INPUT FOR  
REDUNDANT  
POWER SUPPLY

N



AL 401 TS

INPUT FOR  
REDUNDANT  
POWER SUPPLY

N



AL 362 ICT

090054	MD 555-16	Multi Tap 5 inputs, 5 taps and 5 trunk outputs. Passband: 5-2400MHz. Tap attenuation: 16dB. Insertion loss: 1,5dB (862MHz) / 2,4dB (2400MHz). With DC current passage in trunk line. Class A +10dB	1
090055	MD 555-12	Multi Tap 5 inputs, 5 taps and 5 trunk outputs. Passband: 5-2400MHz. Tap attenuation: 12dB. Insertion loss: 2,2dB (862MHz) / 3,5dB (2400MHz). With DC current passage in trunk line. Class A +10dB	1
090056	MD 999-24	Multi Tap 9 inputs, 9 taps and 9 trunk outputs. Passband: 5-2400MHz. Tap attenuation: 24dB. Insertion loss: 0,8dB (862MHz) / 2dB (2400MHz). With DC current passage in trunk line. Class A +10dB	1
090057	MD 999-20	Multi Tap 9 inputs, 9 taps and 9 trunk outputs. Passband: 5-2400MHz. Tap attenuation: 20dB. Insertion loss: 1dB (862MHz) / 2,2dB (2400MHz). With DC current passage in trunk line. Class A +10dB	1
090058	MD 999-16	Multi Tap 9 inputs, 9 taps and 9 trunk outputs. Passband: 5-2400MHz. Tap attenuation: 16dB. Insertion loss: 1,5dB (862MHz) / 2,4dB (2400MHz). With DC current passage in trunk line. Class A +10dB	1
090059	MD 999-12	Multi Tap 9 inputs, 9 taps and 9 trunk outputs. Passband: 5-2400MHz. Tap attenuation: 12dB. Insertion loss: 2,2dB (862MHz) / 3,5dB (2400MHz). With DC current passage in trunk line. Class A +10dB	1

## OUTDOOR MIXER

131002	MI 3 ICT	Mix / demix TER / SAT for ICT installations. 3 inputs: TER (5-862 MHz) / 2 x SAT (950-2300 MHz). 2 outputs: TER + SAT1 / TER + SAT 2. Insertion losses: 4dB (TER) / 2dB (SAT). Class A	10/100
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## LINE AMPLIFIERS

## DVB-T / CATV / EKOAX

061007	MCAL 381 LR	Micro-broadband / line amplifier 1 input (88 - 1000MHz) and passive return path 5-65MHz. G: 26dB (88MHz) / 32dB (1000MHz). Output level: (DIN 45004B): 117dB $\mu$ V (VHF) / 114dB $\mu$ V (UHF). A Class. Compatible with EKOAX	10/60
102006	AC 118 R	Line amplifier with passive return path 5-65MHz. Direct frequency: 87-1000MHz. G: 38dB. Output level: (DIN 45004B) 118dB $\mu$ V. TEST: -20DB. Compatible with EKOAX	6/24

## SAT

101001	ALS 24	SAT line amplifier. Frequency: 950-2400 MHz. G: 18 dB (950 MHz) / 25dB (2300 MHz). Output level (DIN 45004B -35dBc): 110 dB $\mu$ V. A class	10/120
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## DVB-T + SAT

102002	AL 351 TS	Line amplifier TER + SAT. 1 input (47-790/950-2150 MHz). G: 35 dB (TER) / 35 dB (SAT). 1 output. Output level (DIN 45004B): 117 dB $\mu$ V (TER) / 120 dB $\mu$ V (SAT). TEST:-30dB. A Class	6/24
102022	AL 401 TS N	Line amplifier TER + SAT. 1 input: TER + SAT (47-694 / 950-2150 MHz). G: 40 dB (TER) / 40 dB (SAT). Adjustable tilt on each band. Output level (DIN 45004B): 122 dB $\mu$ V (TER) / 120 dB $\mu$ V (SAT). Test -30dB. Optional redundant power supply. Class A.	6

## DVB-T + SAT / DOUBLE LINE

102021	AL 362 ICT N	Dual-line amplifier TER + SAT. 2 inputs: TER + SAT (47-694/950-2150MHz). G: 36dB (TER) / 40dB (SAT). Adjustable tilt on each band. 2 TER + SAT outputs. Output level (DIN 45004B): 118dB $\mu$ V (TER) / 121dB $\mu$ V (SAT). TEST: -30dB. Optional redundant power supply. Class A.	6
071010	FA 2600P	External power supply for redundancy in AL 401 TS and AL 362 ICT	1/50

**INDOOR AMPLIFIERS**

**DTT 5G**

111006	AA 20 L2	Indoor amplifier 1 input (47-694 MHz). 2 output. G: 20dB. Ouput level (DIN 45004B): 2 x 104 dBuV	10/60
111007	AA 412 L2	Indoor amplifier . 1 input (47-694MHz). 4 outputs. G: 4 x 12dB. Output level (DIN 45004B): 4 x 100dBμV	10/60

**DTT + SAT**

111005	AAS 20	Indoor amplifier TER+SAT. 1 input (47-2200MHz). 1 output. G: 11-22dB (Fix-tilt). Output level (DIN 45004B): 110dBμV. It allows remote power and DC pass for LNB	10/60
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**MICRO INDOOR AMPLIFIERS**

111009	MAA 22	Micro indoor amplifier with return path. 1 input (5-65/88-1000 MHz) / 1 output. G: 12-17-22dB. Ouput level (DIN 45004B): 110 dBuV. Wall mounted. Compatible with EKOAX	10/60
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AA 20 L2



AA 412 L2



MAA 22

**NEW MICRO INDOOR AMPLIFIERS**



- ✓ Micro indoor amplifiers
- ✓ Ultra compact size
- ✓ Fits on 80x80 mm junction boxes
- ✓ Wall mount or DIN rail mounting without additional accessories
- ✓ High output level that prevents intermodulation issues when amplifying strong and weak signals.
- ✓ **Multi-purpose system:** option for state-of-the-art **QuiCoax connection** or **F connectors** (adapters included in the packaging)



AA QCF 182



AA QCF 182 SC

**QuiCoax-F MICRO INDOOR AMPLIFIERS**

111016	AA QCF 211	Micro indoor amplifier. 1 input (47-694 MHz) / 1 output. G: 21dB. Ouput level (DIN 45004B): 114 dBuV.	10/60
111017	AA QCF 182	Micro indoor amplifier. 1 input (47-694 MHz) / 2 output. G: 18dB. Ouput level (DIN 45004B): 2x110 dBuV.	10/60
111018	AA QCF 182 SC	Micro indoor amplifier with electrical cable terminal (without power cable). 1 input (47-694 MHz) / 2 output. G: 18dB. Ouput level (DIN 45004B): 2x110 dBuV.	10/60



Example of DIN rail mounting



MINI  
FORMAT

RQC 2M



RQC 3



RQCF 2

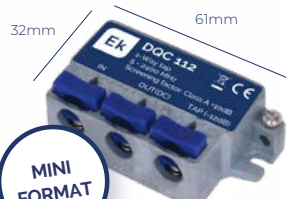


RQCF 6



PAU EXT

Enables the conversion of the distributed RQC 2, 4, 6, and 8 into user PAUs (Spanish regulation)



MINI  
FORMAT

DQC 112

REPARTIDORES QuiCoax

141009	RQC 2M	2 outputs A class Mini splitter. Passband: 5-2400 MHz. Insertion loss: 3,8dB (862 MHz) / 4,9dB (2400 MHz). All ports DC pass. Class A+10 dB	20/120
141010	RQC 2	2 outputs A class splitter. Passband: 5-2400 MHz. Insertion loss: 3,8dB (862 MHz) / 4,9dB (2400 MHz). All ports DC pass. Class A+10 dB	20/120
141011	RQC 3	3 outputs A class splitter. Passband: 5-2400 MHz. Insertion loss: 7dB (862 MHz) / 9,5dB (2400 MHz). All ports DC pass. Class A+10 dB	20/120
141016	RQC 4	4 outputs A class splitter. Passband: 5-2400 MHz. Insertion loss: 8,1dB (862 MHz) / 10dB (2400 MHz). All ports DC pass. Class A+10 dB	20/120
141017	RQC 6	6 outputs A class splitter. Passband: 5-2400 MHz. Insertion loss: 10dB (862 MHz) / 12dB (2400 MHz). All ports DC pass. Class A+10 dB	10/60
141018	RQC 8	8 outputs A class splitter. Passband: 5-2400 MHz. Insertion loss: 12dB (862 MHz) / 14dB (2400 MHz). All ports DC pass. Class A+10 dB	10/60
163005	PAU EXT	Connector with terminal load 75 Ohm. It allows the conversion of RQC 2, 4, 6 and 8 splitters in PAU (Spanish ICT regulation)	25

QuiCoax-F SPLITTERS

141025	RQCF 2	2 outputs A class splitter. Passband: 5-2400 MHz. Insertion loss: 3,8dB (862 MHz) / 4,9dB (2400 MHz). All ports DC pass. Class A+10 dB	20/120
141026	RQCF 3	3 outputs A class splitter. Passband: 5-2400 MHz. Insertion loss: 7dB (862 MHz) / 9,5dB (2400 MHz). All ports DC pass. Class A+10 dB	20/120
141027	RQCF 4	4 outputs A class splitter. Passband: 5-2400 MHz. Insertion loss: 8,1dB (862 MHz) / 10dB (2400 MHz). All ports DC pass. Class A+10 dB	20/120
141028	RQCF 6	6 outputs A class splitter. Passband: 5-2400 MHz. Insertion loss: 10dB (862 MHz) / 12dB (2400 MHz). All ports DC pass. Class A+10 dB	20/120
141029	RQCF 8	8 outputs A class splitter. Passband: 5-2400 MHz. Insertion loss: 12dB (862 MHz) / 14dB (2400 MHz). All ports DC pass. Class A+10 dB	10/60
163005	PAU EXT	Connector with terminal load 75 Ohm. It allows the conversion of RQC 2, 4, 6 and 8 splitters in PAU (Spanish ICT regulation)	10/60

QuiCoax TAPS

142026	DQC 112	1 output A class Mini tap. Passband: 5-2400 MHz. Tap loss: 12dB. Insertion loss: 1,9dB (862 MHz) / 3,2dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	20/120
142027	DQC 116	1 output A class Mini tap. Passband: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 1,5dB (862 MHz) / 2,4 dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	20/120
142028	DQC 120	1 output A class Mini tap. Passband: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 1 dB (862 MHz) / 2,2 dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	20/120
142029	DQC 124	1 output A class Mini tap. Passband: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 0,8 dB (862 MHz) / 2 dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	20/120
141012	DQC 212	2 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 12dB. Insertion loss: 2,2dB (862 MHz) / 3,5dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	20/120

141013	DQC 216	2 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 1,6dB (862 MHz) / 2,6dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	20/120
141014	DQC 220	2 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 1,1dB (862 MHz) / 2,6dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	20/120
141015	DQC 224	2 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 1dB (862 MHz) / 2,3dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	20/120
142016	DQC 412	4 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 12dB. Insertion loss: 3,2dB (862 MHz) / 4,5dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	20/120
142017	DQC 416	4 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 1,8dB (862 MHz) / 3,5dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	20/120
142018	DQC 420	4 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 1,5dB (862 MHz) / 2,1dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	20/120
142019	DQC 424	4 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 1,3dB (862 MHz) / 2dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	20/120
142020	DQC 616	6 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 4dB (862 MHz) / 4,4dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	10/60
142021	DQC 620	6 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 2,7dB (862 MHz) / 3,9dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	10/60
142022	DQC 624	6 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 1,8dB (862 MHz) / 2,8dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	10/60
142023	DQC 816	8 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 4dB (862 MHz) / 4,4dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	10/60
142024	DQC 820	8 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 2,7dB (862 MHz) / 3,9dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	10/60
142025	DQC 824	8 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 1,8dB (862 MHz) / 2,8dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	10/60



DQC 212



DQC 412



DQC 616



DQC 816



**QuiCoax-F TAPS**

142030	DQCF 112	1 output A class Mini tap. Passband: 5-2400 MHz. Tap loss: 12dB. Insertion loss: 1,9dB (862 MHz) / 3,2dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	20/120
142031	DQCF 116	1 output A class Mini tap. Passband: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 1,5dB (862 MHz) / 2,4 dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	20/120
142032	DQCF 120	1 output A class Mini tap. Passband: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 1 dB (862 MHz) / 2,2 dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	20/120
142033	DQCF 124	1 output A class Mini tap. Passband: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 0,8 dB (862 MHz) / 2 dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	20/120
142034	DQCF 212	2 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 12dB. Insertion loss: 2,2dB (862 MHz) / 3,5dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	20/120



DQCF 116



DQCF 212



DQCF 220



DQCF 416



DQCF 616



PCA 4QC



PC QC



BL QC



RQC 6 on DIN rail with AMCD

142035	DQCF 216	2 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 1,6dB (862 MHz) / 2,6dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	20/120
142036	DQCF 220	2 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 1,1dB (862 MHz) / 2,6dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	20/120
142037	DQCF 224	2 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 1dB (862 MHz) / 2,3dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	20/120
142038	DQCF 412	4 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 12dB. Insertion loss: 3,2dB (862 MHz) / 4,5dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	20/120
142039	DQCF 416	4 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 1,8dB (862 MHz) / 3,5dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	20/120
142040	DQCF 420	4 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 1,5dB (862 MHz) / 2,1dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	20/120
142041	DQCF 424	4 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 1,3dB (862 MHz) / 2dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	20/120
142042	DQCF 616	6 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 4dB (862 MHz) / 4,4dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	10/60
142043	DQCF 620	6 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 2,7dB (862 MHz) / 3,9dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	10/60
142044	DQCF 624	6 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 1,8dB (862 MHz) / 2,8dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	10/60
142045	DQCF 816	8 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 4dB (862 MHz) / 4,4dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	10/60
142046	DQCF 820	8 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 2,7dB (862 MHz) / 3,9dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	10/60
142047	DQCF 824	8 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 1,8dB (862 MHz) / 2,8dB (2400 MHz). DC pass in trunk line. Class A + 10 dB	10/60

**QuiCoax MIX-DEMIX TV-SAT**

131005	MQC TS	QUICOAX / Mixer/ demixer 2 inputs TER-SAT. Insertion loss: 1dB (TER) / 1,5dB (SAT). DC pass in SAT input. A +10dB Class	10/120
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**QuiCoax-F MIX-DEMIX TV-SAT**

131006	MQCF TS	QUICOAX / F Mixer/ demixer 2 inputs TER-SAT. Insertion loss: 1dB (TER) / 1,5dB (SAT). DC pass in SAT input. A +10dB Class	10/120
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**QuiCoax ACCESSORIES**

163003	CQC 75	75 Ohm load for QUICOAX devices	25/1000
163008	CQC 75A	75 Ohm isolated load for QUICOAX devices	25/1000
163004	AQC F	Male QUICOAX adapter to F female	25/1000
167004	PC QC	Cable stripping tool for QUICOAX, 2 steps	1/50
167007	PCA 4QC	Cable stripping tool compatible with QUICOAX	1
163006	BL QC	Blocker/stopper for high traction requirements	100/1000
059001	AMCD	DIN rail fixing accessory (for QuiCoax and amplifiers)	1/1000



**QuiCoax WALL-SOCKETS**

145103	TF QC1G <b>E</b>	Wall-socket, terminal derivation with brackets, DATA-TV. Frequency: DATA (5-65 MHz) / FM (88-108MHz) / TV (120-1000 MHz). Tap loss: <1dB (DATA) / <1.5dB (TV). Cable connection by QuiCoax insertion. A Class	10/100
145102	TF QC2W <b>E</b>	Wall-socket, terminal derivation without brackets. TV-RD / SAT with 2 IEC connectors. Frequency: TV 5-694MHz / SAT with DC pass SAT. Tap loss: <1dB (TV-RD) / <1,5dB (SAT). QuiCoax connection. A Class	10/100
145101	TF QC3 <b>E</b>	Wall-socket, terminal derivation with brackets and 2xIEC + 1xF connectors. TV/ RD/SAT. Frequency: TV 5-65 / 120-790MHz / RD 88-108MHz / SAT 950-2400MHz with DC pass SAT. Tap loss: <1dB (TV) / <4dB RD / <1,5dB (SAT). QuiCoax connection. A Class	10/100
145105	APL <b>E</b>	Drywall installation accessory	10/100



TF QC2W



APL

**QuiCoax CONNECTOR**

146001	CFQC	QUICOAX F-connector. BL QC included.	25/500
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CFQC

**THE FASTER AND RELIABLE CONNECTION**

Push, insert ... and you're done



WALL-SOCKETS  
TFQC



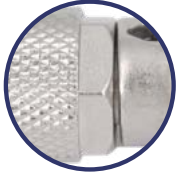
QuiCoax button detail with inspection window



CFQC CONNECTOR



CFQC knurled head for better grip



Integrated nut for tool tightening



Application of the BL QC blocker in the QuiCoax connector

**SPLITTERS**

**1000 MHz**

141007	RT 12	2 outputs A Class splitter. Frequency range: 5-1000 MHz. Insertion loss: 3,8dB (1000 MHz). All ports DC pass.	10/120
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**5-2400 MHz**

141006	RI 2	2 outputs A class splitter. Frequency range: 5-2400 MHz. Insertion loss: 3,8dB (862 MHz) / 4,9dB (2400 MHz). All ports DC pass. All connectos in one side. Compatible with PMM (outdoor installation)	10/120
141001	RF 12	2 outputs A class splitter. Frequency range: 5-2400 MHz. Insertion loss: 3,8dB (862 MHz) / 4,9dB (2400 MHz). All ports DC pass.	10/120
141002	RF 13	3 outputs A class splitter. Frequency range: 5-2400 MHz. Insertion loss: 7dB (862 MHz) / 9,5dB (2400 MHz). All ports DC pass.	10/120
141003	RF 14	4 outputs A class splitter. Frequency range: 5-2400 MHz. Insertion loss: 8,1dB (862 MHz) / 10dB (2400 MHz). All ports DC pass.	10/120
141004	RF 16	6 outputs A class splitter. Frequency range: 5-2400 MHz. Insertion loss: 11dB (862 MHz) / 14,5dB (2400 MHz). All ports DC pass.	5/60
141005	RF 18	8 outputs A class splitter. Frequency range: 5-2400 MHz. Insertion loss: 12dB (862 MHz) / 15,5dB (2400 MHz). All ports DC pass.	5/60



RI 2



RF 12 / RT 12



RF 13



RF 16



DF 212



DF 412



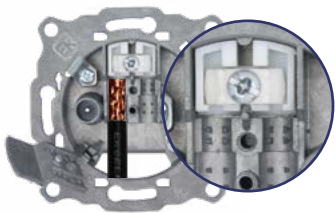
DF 816



PAU 4



PAU 8



TF D



TF DW

**CLASS A TAPS**

142001	DF 212	2 outputs A class tap. Frequency range: 5-2400 MHz. Tap loss: 12dB. Insertion loss: 2,2dB (862 MHz) / 3,5dB (2400 MHz). DC pass in trunk line. Class A	10/120
142002	DF 216	2 outputs A class tap. Frequency range: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 1,6dB (862 MHz) / 2,6dB (2400 MHz). DC pass in trunk line. Class A	10/120
142003	DF 220	2 outputs A class tap. Frequency range: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 1,1dB (862 MHz) / 2,6dB (2400 MHz). DC pass in trunk line. Class A	10/120
142004	DF 224	2 outputs A class tap. Frequency range: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 1dB (862 MHz) / 2,3dB (2400 MHz). DC pass in trunk line. Class A	10/120
142005	DF 412	4 outputs A class tap. Frequency range: 5-2400 MHz. Tap loss: 12dB. Insertion loss: 3,2dB (862 MHz) / 4,5dB (2400 MHz). DC pass in trunk line. Class A	10/120
142006	DF 416	4 outputs A class tap. Frequency range: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 1,8dB (862 MHz) / 3,5dB (2400 MHz). DC pass in trunk line. Class A	10/120
142007	DF 420	4 outputs A class tap. Frequency range: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 1,5dB (862 MHz) / 2,1dB (2400 MHz). DC pass in trunk line. Class A	10/120
142008	DF 424	4 outputs A class tap. Frequency range: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 1,3dB (862 MHz) / 2dB (2400 MHz). DC pass in trunk line. Class A	10/120
142009	DF 816	8 outputs A class tap. Frequency range: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 3,8dB (862 MHz) / 4,9dB (2400 MHz). DC pass in trunk line. Class A	5/60
142010	DF 820	8 outputs A class tap. Frequency range: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 1,9dB (862 MHz) / 3,2dB (2400 MHz). DC pass in trunk line. Class A	5/60
142011	DF 824	8 outputs A class tap. Frequency range: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 1,4dB (862 MHz) / 2,1dB (2400 MHz). DC pass in trunk line. Class A	5/60

**PAUs CLASS A**

143001	PAU 4	PAU-splitter 4-way. Frequency range: 5-2400 MHz. Insertions loss: 8,1dB (862 MHz) / 10dB (2400 MHz). With DC pass. A Class	10/120
143003	PAU 6	PAU-splitter 6-way. Frequency range: 5-2400 MHz. Insertions loss: 10,5dB (862 MHz) / 14,5dB (2400 MHz). With DC pass. A Class	5/60
143002	PAU 8	PAU-splitter 8-way. Frequency range: 5-2400 MHz. Insertion loss: 12,5dB (862 MHz) / 16,5dB (2400 MHz). With DC pass. A Class.	5/60

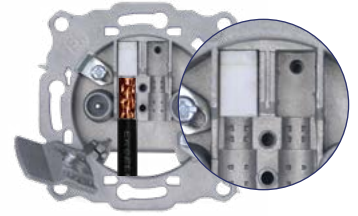
**WALL-SOCKETS**

**FINAL OF DERIVATION WITH TV-SAT FILTER**

145001	TF D	Wall-socket for end of derivation with brackets. TV-RD / SAT with 2 IEC connectors. Frequency: TV-RD / SAT with SAT current pass. Tap loss: <1dB (TV-RD) / <1,5dB (SAT). Cable fixing by screw on plastic	10/100
145002	TF DW	Wall-socket for end of derivation without brackets. TV-RD / SAT with 2 IEC connectors. Frequency: TV-RD / SAT with SAT current pass. Tap loss: <1dB (TV-RD) / <1,5dB (SAT). Cable fixing by screw on plastic	10/100

**FINAL OF DERIVATION 1GHz**

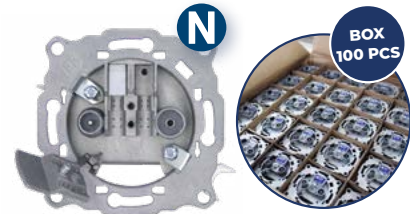
145021	TF 1G <b>N</b>	Wall socket for end of derivation with clamps, DATA-TV. Frequency: DATA (5-65 MHz) / FM (88-108 MHz) / TV (120-1000 MHz). Tap attenuation: <1dB (DATA) / <1.5dB (TV). Cable conductor fixation by quick insertion. Class A.	10/100
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TF DI

**FINAL OF DERIVATION WITH TV-SAT FILTER AND QUICK INSERTION**

145006	TF DI	Wall-socket for end of derivation with brackets. TV-RD / SAT with 2 IEC connectors. Frequency: TV-RD / SAT with SAT current pass. Tap loss: <1dB (TV-RD) / <1.5dB (SAT). Cable fixing by quick insertion	10/100
145007	TF DIW	Wall-socket for end of derivation without brackets. TV-RD / SAT with 2 IEC connectors. Frequency: TV-RD with SAT current pass. Tap loss: <1dB (TV-RD) / <1.5dB (SAT). Cable fixing by quick insertion	10/100
145009	TF DIW-100 <b>N</b>	Wall socket for end of derivation without clamps, TV-RD / SAT with 2 IEC connectors. Frequency: TV-RD / SAT with SAT current pass. Tap attenuation: <1dB (TV-RD) / <1.5dB (SAT). Cable conductor fixation by quick insertion.	100



TF DIW-100

**CASCADABLE LOW LOSSES WITH TV-SAT FILTER**

145008	TCI-5	Intermediate wall-socket base with claws, TV-RD / SAT with 2 IEC connectors. Frequency: TV-RD (5-862 MHz) / SAT (950-2400 MHz) with SAT current pass. Branch attenuation: <5dB (TV-RD) / <6dB (SAT). Passage losses <5,5dB. Cable fixing by quick insertion	10/100
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SSB

**UNIVERSAL CASCADABLES TV-SAT / TV-SAT**

145003	TU F4	Wall-socket for cascade termination with brackets, with 2 universal IEC connectors TV-RD-SAT. Frequency: 5-2400 MHz. Tap loss: <3dB (TV-RD) / <4dB (SAT). Cable fixing by screw on plastic	10/100
145004	TU C10	Wall-socket intermediate for cascade installation with brackets, with 2 universal IEC connectors TV-RD-SAT. Frequency: 5-2400 MHz. Derivation attenuation: 10dB (TV-RD) / 12dB (SAT). Insertion loss: <2,9dB (TV-RD) / <3,2dB (SAT). Cable fixing by screw on plastic	10/100
145005	TU C15	Wall-socket intermediate for cascade installation with brackets, with 2 universal IEC connectors TV-RD-SAT. Frequency: 5-2400 MHz. Derivation attenuation: 13dB (TV-RD) / 15dB (SAT). Insertion loss: <2,9dB (TV-RD) / <3,2dB (SAT). Cable fixing by screw on plastic	10/100



MTB 3

**OUTLETS ACCESSORIES**

144003	MTB	Frame for TV socket with 2 connectors. White color	20/200
144004	SSB	Supplement for surface TV socket mounting. White color	10/100
144008	MTB 3	Frame for TV socket with 3 connectors. White color	20/200



Access the EK ROLLER demo video

**EK ROLLER COAXIAL CABLES**

**EK ROLLER**

151062	EK ROLLER+	Cable unroller / roller device for coaxial cable compatible with Ek roller. With weight stabilizer accessory	1
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EK ROLLER+

# Ek ROLLER +

**Ek Roller** is a new concept of cable dispenser patented by EK that presents unique advantages in the market. Its low weight and size allows it to be stored in the toolbox and it makes it very easy to use in any situation and environment. Thanks to its robust steel structure, supports both light reels of less than 1kg and reels of more than 30kg

- ✓ The quick fixing system to the reel allows an easy and toolless swap in just two seconds
- ✓ Once fixed, it is automatically integrated into the exclusive EK reel with handle, which makes it even easier to use and portable
- ✓ EK Roller allows not only the unwinding of cable by simply pulling it, but also makes it easy the tedious task of winding the excess cable at the end of the installation
- ✓ The EK reels compatible with EK Roller also consist of an innovative system that prevents the excess cable from becoming entangled and guarantees a fluid unwinding of the same
- ✓ It includes an accessory that adds weight to optimize the rotation of light or low-cable coils. It is optimized for the PFR and PCR range of PAUs, and can also be used with other compatible light reels for Ek Roller.



EK ROLLER + COIL UNWINDING

## Ek ROLLER



CLASE A CPR Eca

CCR 596-150

## Ek ROLLER



CLASE A CPR Dca

CCR 128D

## Ek ROLLER



CLASE A CPR Fca/PE

CCR 128 N

## Ek ROLLER



CLASE A CPR Eca

CCR 3S

## Ek ROLLER



CLASE A CPR Fca/PE

CCR 11T

## Ek ROLLER



CLASE A CPR Dca

CCR 96D

CLASE A CPR Dca

CCR 96D-250



EK ROLLER REEL HANDLE

## CCS CONDUCTOR - AL FOIL AND BRAID FOR SMATV EK ROLLER

151048	CCR 596-150	Coaxial cable 5,0 mm diameter. 96 wires. Inner conductor CCS 0,8mm. Shielding 90dB/A class. Attenuation: 25,2dB (862 MHz) / 39,9dB (2150 MHz). PVC white jacket CPR Eca. <b>150 m cardboard reel</b> for EK ROLLER.	4/72/144
151070	CCR 128D N	Coaxial cable. 6,9 mm diameter. Inner conductor CCS. 128 wires. Shielding 90dB/ A class. Attenuation: 17,5dB (862 MHz) / 28,5dB (2150 MHz). Jacket LSZH white color. CRP Dca s2 d2 a2. <b>100 m carton spool</b> Ek ROLLER	4/72/144
151052	CCR 128 N	Coaxial cable 6,8 mm diameter. 128 wires. Inner conductor CCS 1,13mm. Shielding 90dB/A class. Attenuation: 17,5dB (862 MHz) / 28,5dB (2150 MHz). PE black jacket. <b>100 m cardboard reel</b> for EK ROLLER.	4/72/144

## TRI-SHIELD / CCS CONDUCTOR - AL FOIL AND BRAID FOR CATV EK ROLLER

151053	CCR 3S	Trishield coaxial cable 6,9 mm diameter. 128 wires. Inner conductor CCS 1,13mm. Shielding 110dB/A+ class. Attenuation: 17,5dB (862 MHz) / 28,5dB (2150 MHz). PVC white jacket. CPR Eca. <b>250 m wooden drum</b> for EK ROLLER.	1/36/72
151054	CCR 11T	Trishield Coaxial cable 10,16 mm diameter. 128 wires. Inner conductor 1,63 CCS. Shielding 110dB/A class. Attenuation: 11,9dB (862 MHz) / 19,8 dB (2150 MHz). PE black jacket. <b>300 m wooden drum</b> for EK ROLLER.	1/24

## CU CONDUCTOR - CCA FOIL AND BRAID / CPR DCA FOR EK ROLLER

151049	CCR 596 CU-150	Coaxial cable 5,0 mm diameter. 96 wires. Inner conductor CU 0,8 mm. 90 dB / class A shielding. Attenuation: 25,2 dB (862 MHz) / 39,9 dB (2150 MHz). PVC white jacket CPR Dca. <b>150 m cardboard reel</b> for EK ROLLER.	4/72/144
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## CU CONDUCTOR - CU FOIL AND CCA BRAID / CPR DCA FOR EK ROLLER

151039	CCR 96D	Coaxial cable 6,8 mm diameter. 96 wires. Inner conductor Cu 1,02 mm. Shielding 85dB/A class. Attenuation: 17,9dB (862 MHz) / 29,6dB (2150 MHz). LSZH white jacket. CPR Dca. <b>100m cardboard reel</b> for EK ROLLER	4/72/144
151040	CCR 96D-250	Coaxial cable 6,8 mm diameter. 96 wires. Inner conductor Cu 1,02 mm. Shielding 85dB/A class. Attenuation: 17,9dB (862 MHz) / 29,6dB (2150 MHz). LSZH white jacket CPR Dca. <b>250m wooden drum</b> for EK ROLLER.	1/36/72
151041	CCR 96N	Coaxial cable 6,8 mm diameter. 96 wires. Inner conductor Cu 1,02 mm. Shielding 85dB/A class. Attenuation: 17,9dB (862 MHz) / 29,6dB (2150 MHz). PE black jacket. <b>100m cardboard reel</b> for EK ROLLER.	4/72/144
151057	CCR 96N-250	Coaxial cable 6,8 mm diameter. 96 wires. Inner conductor Cu 1,02 mm. Shielding 85dB/A class. Attenuation: 17,9dB (862 MHz) / 29,6dB (2150 MHz). PE black jacket. <b>250m wooden drum</b> for EK ROLLER.	1/36/72
151042	CCR 96+D	Coaxial cable 6,8 mm diameter. 96 wires. Inner conductor Cu 1,13mm. Shielding 85dB/A class. Attenuation: 17,4dB (862MHz) / 28,4dB (2150MHz). LSZH white jacket CPR Dca. <b>100m cardboard reel</b> for EK ROLLER.	4/72/144
151044	CCR 96+D-250	Coaxial cable 6,8 mm diameter. 96 wires. Inner conductor Cu 1,13mm. Shielding 85dB/A class. Attenuation: 17,4dB (862MHz) / 28,4dB (2150MHz). LSZH white jacket CPR Dca. <b>Wooden drum 250m</b> for EK ROLLER	1/36/72
151043	CCR 96G+D	Coaxial cable 6,8 mm diameter. 96 wires. Inner conductor Cu 1,13mm. Shielding 85dB/A class. Attenuation: 17,4dB (862MHz) / 28,4dB (2150MHz). LSZH grey color jacket CPR Dca. <b>100m cardboard reel</b> for EK ROLLER.	4/72/144
151045	CCR 96G+D-250	Coaxial cable 6,8 mm diameter. 96 wires. Inner conductor Cu 1,13mm. Shielding 85dB/A class. Attenuation: 17,4dB (862MHz) / 28,4dB (2150MHz). LSZH grey color jacket CPR Dca. <b>Wooden drum 250m</b> for EK ROLLER.	1/36/72

Ek ROLLER



CLASE A CPR Dca  
CCR 96G+D

CLASE A CPR Dca  
CCR 96G+D 250

Ek ROLLER



CLASE A CPR Fca/PE  
CCR 96N+

CLASE A CPR Fca/PE  
CCR 96N+ 250

Ek ROLLER

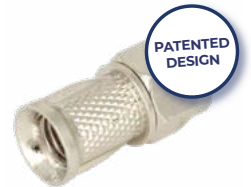


CLASE A CPR Dca  
CCR 11 CU

CLASE A CPR Dca  
CCR 11 CUD



CFR 5 EK



CFR 6 EK



CFR 6 EK-B

151046	CCR 96N+	Coaxial cable 6,8 mm diameter. 96 wires. Inner conductor Cu 1,13mm. Shielding 85dB/A class. Attenuation: 17,4dB (862MHz) / 28,4dB (2150MHz). PE black jacket. <b>100m cardboard reel</b> for EK ROLLER.	4/72/144
151058	CCR 96N+ 250	Coaxial cable 6,8 mm diameter. 96 wires. Inner conductor Cu 1,13mm. Shielding 85dB/A class. Attenuation: 17,4dB (862MHz) / 28,4dB (2150MHz). PE black jacket. <b>250m wooden drum</b> for EK ROLLER.	1/36/72
151055	CCR 11 CU	Coaxial cable 10,03mm diameter. 128 wires. Inner conductor CU 1,63mm. Screening 90dB / class A. Attenuation: 11,9dB (862MHz) / 19,8dB (2150MHz). Black PE jacket. <b>Wooden drum 300m</b> for EK ROLLER	1/24
151056	CCR 11 CU D	Coaxial cable 10,03mm diameter. 128 wires. Inner conductor CU 1,63mm. Screening 90dB / class A. Attenuation: 11,9dB (862MHz) / 19,8dB (2150MHz). White LSZH jacket CPR Dca. <b>Wooden drum 300m</b> for EK ROLLER.	1/24

CCS CONDUCTOR - AL BONDED FOIL AND AL BRAID FOR SMATV

151051	CCR 112P-D-250	Coaxial cable 6,8 mm diameter. 112 wires. Inner conductor CCS 1,02 mm. Shielding 90dB/A class. Attenuation: 17,9dB (862 MHz) / 29,6dB (2150 MHz). Bonded Foil. LSZH white jacket CPR Dca. <b>250m wooden drum</b> for EK ROLLER.	1/36/72
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COAXIAL CABLE 25m

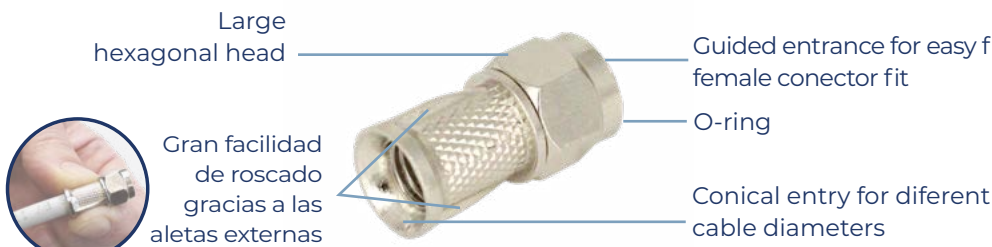
151036	CC 128/25	Coaxial cable 6,9 mm diameter. 128 wires. Inner conductor CCS 1,13 mm. Shielding 90dB / A class. Attenuation: 17,5dB (862 MHz) / 28,5dB (2150 MHz). PVC white jacket CPR Eca. <b>25m coil.</b>	16
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CONNECTORS AND ACCESSORIES

TWIST-ON WITH WINGS F CONNECTORS

162017	CFR 5 EK	Twist-on with wings F-connector male for 4,8-5,2 mm cable, with O-ring	50/2000
162015	CFR 6 EK	Twist-on with wings F-connector male for 6,6-7,3 mm cable, with O-ring	50/2000
162020	CFR 6 EK-B	Twist-on with wings F-connector male for 6,6-7,3mm cable, with O-ring. Plastic bottle packaging	100/2000

Advantages of new patented CFR 5 EK and CFR 6 EK connectors





EKEY



Ek DRIVER



FUNDA EK DRIVER



Access the Ekey and EK DRIVER demo video



CFR 5

CFR 11



CCP 6

CCP 11



C95M EK



C95H EK

ACCESSORIES FOR TWIST-ON F-CONNECTORS WITH WINGS

167005	EKEY	Special key for CFR EK connectors. Standalone use or compatible with EK DRIVER	1/25
167006	EK DRIVER	Automatic screwdriver with bits and accessories. Contains EKEY	1/32

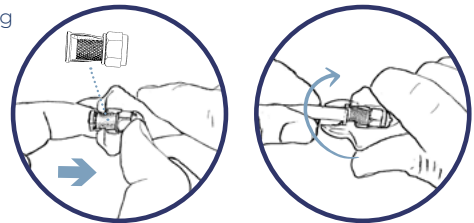
**EKey** is an exclusive EK tool, designed to make it even easier to assemble the patented CFR6EK and CFR5EK F-type connectors. EKey consists of an ergonomically designed handle that adapt to the installer's hand and allow a very easy assembly. But the most revolutionary feature of EKey is its compatibility with electric drills and screwdrivers. Among them the EKdriver, achieving a connector assembly practically instantaneous and without any effort. EKey allows a much greater threading force to be applied than in a conventional twist-on connector and makes it possible to assemble even on larger diameter cables such as trishield type (CC3S).

As an additional feature and perfect complement to help the installer, **EKey** is equipped with an 11mm fixed wrench for F connectors. Unlike metal wrenches that can damage equipment if excessive torque is applied, EKey is made of high-strength nylon and its elasticity gives it simple and effective torque control.

**Ek driver** is an electric screwdriver specially designed for use together with the **EKey** tool for F-type connectors assembly references CFR6EK and CFR5EK. Its ergonomic design and size are similar to a conventional screwdriver which makes it ideal for every installer to carry in their toolbox. It is compatible with standard hexagonal 6mm bits and it is supplied in a complete case with charger, bits set and an **EKey** key.

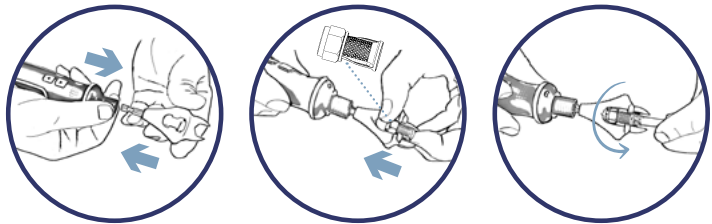
Assembling CFR 5 EK / CFR 6 EK connectors with Ekey

Ekey for hand assembling



Ekey with EK DRIVER\*

\*Electric drills can be used at low speed



TWIST-ON F CONNECTORS

161006	CFR 11	F male twist-on connector with O-ring for 11 mm cable (CCR 11)	50/400
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COMPRESSION F TYPE

168001	CCP 6	Compression F male connector for 7 mm cable. Compatible with CCR 96, CCR 128 and CCR 3S cables	250/1000
168002	CCP 11	Compression F male connector for 11 mm cable. Compatible with CCR 11 cable	50/400

IEC TYPE CLASS A++

162018	C95M EK	90° IEC 9,5 mm male connector for 6,6-6,9 mm cable (CCR 128 / CCR 3S). Quick pressure connection. First 90° metal connector on the market made from a single block of zamak. Patented design by EK ensures A++ class shielding	25/1000
162019	C95H EK	90° IEC 9,5 mm female connector for 6,6-6,9 mm cable (CCR 128 / CCR 3S). Quick pressure connection. First 90° metal connector on the market made from a single block of zamak. Patented design by EK ensures A++ class shielding	25/1000
162012	C 95 M49	90° IEC 9,5 mm male connector for 4,7-5,1 mm cable (CCR 596). Quick pressure connection. First 90° metal connector on the market made from a single block of zamak. Patented design by EK ensures A++ class shielding	25/1000



162013	C 95 H49	90° IEC 9,5 mm female connector for 4,7-5,1 mm cable (CCR 596). Quick pressure connection. First 90° metal connector on the market made from a single block of zamak. Patented design by EK ensures A++ class shielding	25/1000
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C 95 M49 - C 95 H49

**IEC TYPE BASIC**

162008	C 95P-M	90° IEC 9,5 mm male connector for 6,6-7,0 mm cable (CCR 112 / CCR 96 / CCR 3S). Connection by screw	25/250
162009	C 95P-H	90° IEC 9,5 mm female connector for 6,6-7,0 mm cable (CCR 112 / CCR 96 / CCR 3S). Connection by screw	25/250



C 95P-M

C 95P-H

**QUICK-F ANGLE TYPE**

161002	CF 90	A class 90° F male connector for 6,9 - 7,3 mm cable (CCR 128 / CCR 3S). Quick pressure connection	36/432
161009	CF 90 - 6	A class 90° F male connector for 6,6 - 6,9 mm cable (CCR 112 / CCR 96 / CCR 128). Quick pressure connection	36/432

**F TYPE LOADS**

163001	CF 2150	F male 75 ohms terminator	25/200
163002	CF 2150 A	F male 75 ohms isolated terminator	25/200



CF 2150

CF 2150 A

**ADAPTERS**

165001	AFF	F female - F female adapter	25/250
165006	FFQ	F female - F male quick adapter	25/250
165002	AFI	F female - IEC male adapter	25/200
165012	AFI H	F female - IEC female adapter	25/200
165005	AFI 90	F female - IEC male adapter. 90° angle	25/200
165007	IEC MM	IEC male - IEC male adapter	25/250
165008	IEC HH	IEC female - IEC female adapter	25/250
166001	RFF	Quick F to 2 F connector splitter	10/400



AFF

AFI



AFI 90

RFF

**ATTENUATOR**

164002	ATS	Variable attenuator with F-connector. Frequency: 45-2300MHz. Attenuation: 0-20dB. With DC pass	1/30
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**IEC CABLES**

169001	PTV	IEC male to IEC female extension cable. Class A. 1.5 meters.	1/200
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PTV

**TOOLS**

167001	PCA	Cable stripping tool for coaxial cables	1/25
167007	PCA 4QC	Cable stripping tool compatible with QUICOAX	1
167004	PC QC	Cable stripping tool for QUICOAX, 2 steps	1/50
167002	MCP 511	Compression tool for compression connectors CCP 6 and CCP 11	1/10
167003	HT 3	Cutting and assembling tool for compression connectors	1/25
210005	LCF	Tool for F connector	1/50

**IEC CLASS A++ CONNECTORS EXCEEDING YOUR EXPECTATIONS**

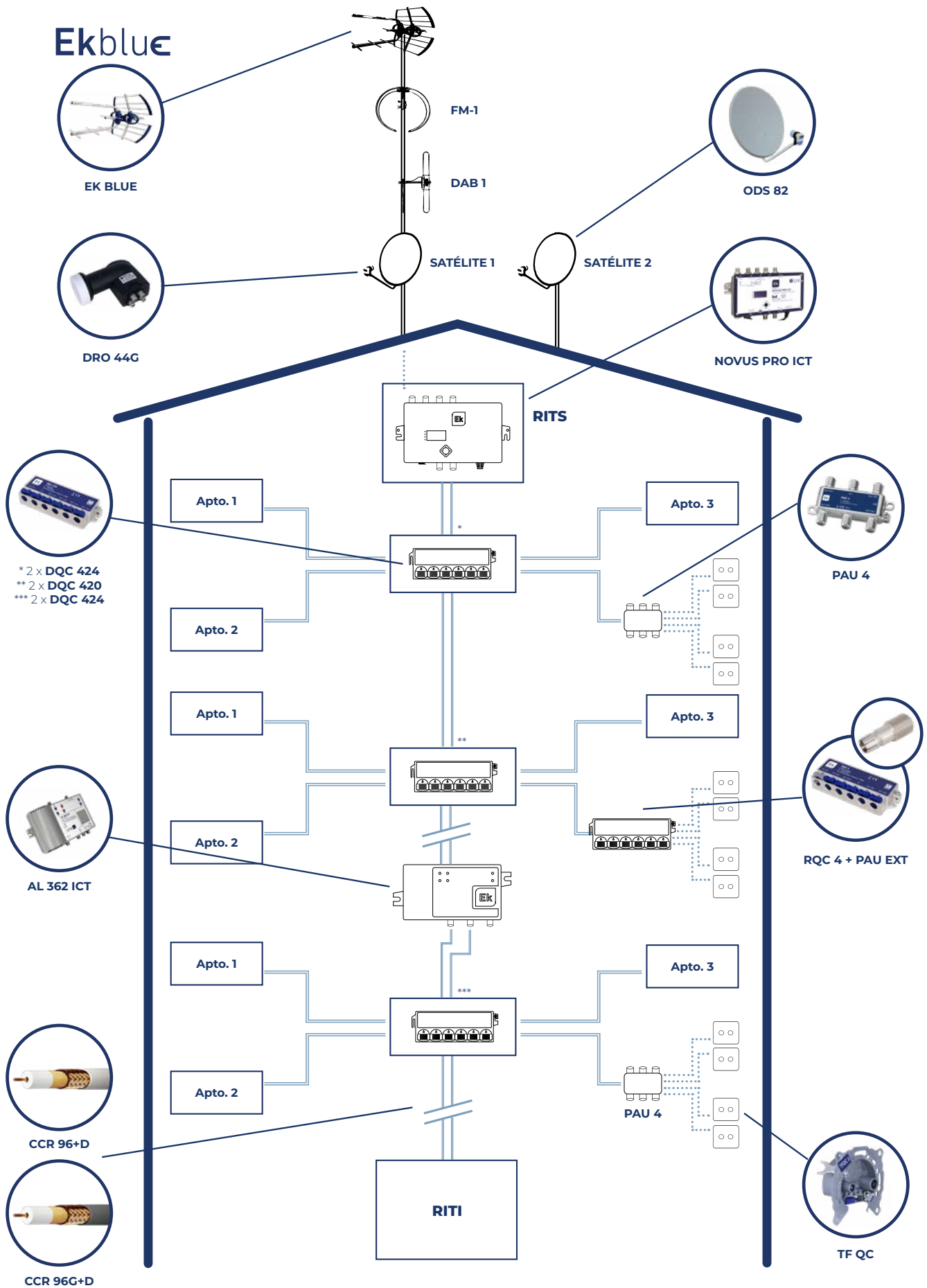
EK introduces the first 90° metal connector on the market made of a single zamak block. This range of right-angled IEC 9.5mm connectors are manufactured in a single piece without openings and with continuous shielding. This patented design by EK gives them the highest shielding on the market (Class A++).



NEW ENHANCED MODEL

- 01** Patented design
- 02** Simple, fast and safe assembly, without tools
- 03** Class A++ Shielding (105dB)
- 04** High immunity to 4G/5G interferences
- 05** Cable conductor fixing by clamp
- 06** High resistance and durability

EXAMPLE OF SMATV INSTALLATION





A close-up photograph of fiber optic cables and connectors. The cables are numerous and thin, creating a dense, shimmering field of light. In the foreground, a clear plastic connector is visible, with a white plastic housing. The background is a soft, out-of-focus blue and white light, suggesting a large bundle of cables. The overall image has a clean, technical aesthetic with a blue and white color palette.

# 02

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FIBER OPTICS AND  
LAN / DATA  
DISTRIBUTION



RP FO



ARP



BF 48 C



Bandeja rack extraíble de gran robustez



R6 19 450



PP 24 S



KJ C6 HQ



KJ C6A



KJ C6A-TL



KJ C6A-FTL



SC KJ M



FF KJ

## TRANSMITTERS, EDFAs, RECEIVERS, AND OPTICAL SPLITTERS

See complete range in FAMILY 06 CATV / HFC TRANSMISSION - OPTICAL RECEPTION / ICT2 page 53

## CABINETS AND ACCESSORIES

### MULTI OPERATOR FIBER CABINET

396012	RP FO	2-zone cabinet for 48 SC/APC adapters. 2 trays for up to 48 fusions. 2 doors with independent keys	1/4
396016	ARP	16 SC/APC adapters plate for RP FO	1/50

### WALL RACK AND CABINETS - RITI \*

361001	B 2U	Wall frame 19" 2U - 300 mm depth	1
396005	RB 4 19 300	Rack cabinet de 19" 4U 300mm depth, 180 x 540 x 362mm	1
396021	RB 6 19 300	Rack cabinet de 19" 6U 300mm depth, 211 x 540 x 362mm	1
396013	R6UD	Rack cabinet 19" 6U unassembled. 600 x 400 x 370 mm	1
396014	R9UD	Rack cabinet 19" 9U unassembled. 600 x 400 x 500 mm	1
397004	PPC 19	Lead-through for 19" rack 1U	1
397002	PC 2 19	Blind panel 2U rack 19"	1

\* Please refer to the full range of RACKS and Accessories in the **OPENETICS** catalog

### FIBER TRAYS AND ACCESSORIES\*

361012	BF 24 C	Bandeja extraíble 24 puertos con 24 adaptadores SC/APC Simplex con tapón antipolvo. Adaptadores montados. 1U	1/5
361013	BF 48 C	Bandeja extraíble 48 puertos con 24 adaptadores SC/APC Duplex con tapón antipolvo. Adaptadores montados. 1U	1/5
361018	BF 24 E	Bandeja extraíble 24 puertos con 24 adaptadores montados SC/APC simplex . Identificador fibras. Tapón antipolvo. 1U	1/5
361019	BF 48 E	Bandeja extraíble 48 puertos con 24 adaptadores SC/APC duplex . Identificador fibras. Tapón antipolvo. 1U	1/5
363001	A SCAPC S	Adaptador SC/APC simplex con aletas de fijación	25/2000
363004	A SCAPC D	Adaptador SC/APC duplex con aletas de fijación Para recambio BF 48 C	20/1000
363010	T AD	Bolsa 48 unidades con tornillos para adaptadores SC/APC	1
363011	TP AD S	Tapón para frontal bandeja telescópica conector SC	100
366001	PFF 45	Protectores termoretráctiles de 45mm para fusiones. Bolsa 50 unidades	1

\* Please refer to the full range in the **OPENETICS** catalog

### PATCH PANELS AND KEYSTONE JACKS\*

392005	PP 24 6 C	24 ports Cat6 assembled patch panel for 19" rack. 1U	1/10
392001	PP 24 S	24 ports empty patch panel for 19" rack. 1U	1/10
393022	KJ C6 HQ	Keystone jack / CAT6 UTP female connector without tool, wing nut type.	1/100
393005	KJ C6A	Cat6A UTP keystone jack / female connector	1/100
393007	KJ C6A-TL	Tool-less Cat6A UTP keystone jack female connector	1/100
393006	KJ C6A-FTL	Tool-less Cat6A FTP keystone jack female connector	1/50
393016	SC KJ M	SC/APC fiber adapter with antidust cap protection and adapter for patch panel assembling	50/1000
393011	FF KJ	Double F connector adapter for patch panel	25

\* Please refer to the full range in the **OPENETICS** catalog

**DISTRIBUTION BOX**

361031	RS 4	Fiber distribution box 4 connectorized or fused fibers. SC/APC adapters not included	1/10
361032	RS 8-12	Fiber distribution box 8 connectorized /12 fused fibers. SC/APC adapters not included	1/10
361041	RS 24-12	Fiber distribution box 4 connectorized or fused fibers. SC/APC adapters not included	1/20
361042	ARS 12	Fiber distribution box 8 connectorized /12 fused fibers. SC/APC adapters not included	1/20
396023	RP FO P	Armario plástico dos zonas para 48 adaptadores SC/APC. 4 bandejas para un máximo de 48 fusiones. 2 puertas	1/6



**RS 8-12**



**RS 24-12**



**RP FO P**

**KITS PIGTAIL / PATCH CORD COMPATIBLES EK ROLLER**

**EK ROLLER**

151062	EK ROLLER+	Cable unroller / roller device for coaxial cable compatible with Ek roller. With weight stabilizer accessory	1
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**Ek ROLLER +** 

**Ek Roller** is a new concept of cable dispenser patented by EK that presents unique advantages in the market. Its low weight and size allows it to be stored in the toolbox and it makes it very easy to use in any situation and environment. Allows the rotation of fiber optic distribution kit boxes, facilitating their unwinding. Thanks to its robust steel structure, supports both light reels of less than 1kg and reels of more than 30kg

- ✓ The quick fixing system to the fiber optic distribution kit boxes allows an easy and toolless swap in just two seconds
- ✓ Ek Roller allows not only the unwinding of cable by simply pulling it, but also makes it easy the tedious task of winding the excess cable at the end of the installation
- ✓ The EK reels compatible with Ek Roller also consist of an innovative system that prevents the excess cable from becoming entangled and guarantees a fluid unwinding of the same
- ✓ It includes an accessory that adds weight to optimize the rotation of light or low-cable coils. It is optimized for the PFR and PCR range of PAUs, and can also be used with other compatible light reels for Ek Roller.



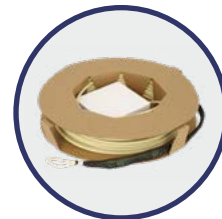
Access the EK ROLLER demo video

**PIGTAIL KITS EK ROLLER - CPR DCA**

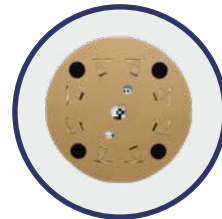
361111	PFR 10DT	Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers pigtail 10m with traction system. CPR Dca	1/16
361112	PFR 15DT	Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers pigtail 15m with traction system. CPR Dca	1/16
361113	PFR 20DT	Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers pigtail 20m with traction system. CPR Dca	1/16
361114	PFR 25DT	Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers pigtail 25m with traction system. CPR Dca	1/16
361115	PFR 30DT	Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers pigtail 30m with traction system. CPR Dca	1/16
361116	PFR 50DT	Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers pigtail 50m with traction system. CPR Dca	1/16
361117	PFR 70DT	Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers pigtail 70m with traction system. CPR Dca	1/16
361129	PFR 100DT	Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers pigtail 100m with traction system. CPR Dca	1/16



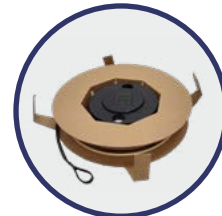
**Ek ROLLER +**



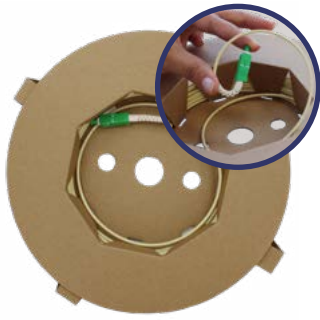
Cardboard reel with EK ROLLER+ system



Mounting System for Ek ROLLER+



Ek ROLLER+ with a special accessory for easy unwinding



PCR XX FEK



PC SA-200



RT 2 A PT



A SCAPC S



A SCAPC AD



TP AD S



PFF 45



MP 18



External mounting ears for greater installation comfort

#### PATCHCORD KITS EK ROLLER - CPR DCA

361118	PFR 20 DEK	Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers connectorized patchcord 20m with traction system. CPR Dca	1/16
361119	PFR 25 DEK	Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers connectorized patchcord 25m with traction system. CPR Dca	1/16
361120	PFR 30 DEK	Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers connectorized patchcord 30m with traction system. CPR Dca	1/16
361121	PFR 50 DEK	Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers connectorized patchcord 50m with traction system. CPR Dca	1/16
361122	PFR 70 DEK	Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers connectorized patchcord 70m with traction system. CPR Dca	1/16

#### PATCHCORD KITS WITH FLEXIBLE CONNECTORS EK ROLLER - CPR DCA

361126	PCR 12 FEK	3mm patch cord with flexible SC/APC connectors. Length 12 m. With traction system at one end. CPR Dca	1/16
361127	PCR 18 FEK	3mm patch cord with flexible SC/APC connectors. Length 18 m. With traction system at one end. CPR Dca	1/16
361128	PCR 24 FEK	3mm patch cord with flexible SC/APC connectors. Length 24 m. With traction system at one end. CPR Dca	1/16

#### 3 MM FIBER PATCHCORDS

362002	PC SA 25	3mm patch cord fiber with SC/APC connectors. Length 25 cm	1/250
362001	PC SA 100	3mm patch cord fiber with SC/APC connectors. Length 1 m	1/250
362005	PC SA-200	3mm patch cord fiber with SC/APC connectors. Length 2m	1/250
362003	PC SA-P 25	3mm hybrid patch cord with SC/APC and SC / PC connectors. Length 25 cm	1/250
362004	PC SA-P200	3mm hybrid patch cord with SC/APC and SC / PC connectors. Length 2m	1/250

#### 900 um FIBER PIGTAILS

362021	PT 150	900um pigtail SM fiber SC/APC connectors. Length 1.5m	25
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#### FIBER ROSSETES, DATA, CABLES AND ACCESSORIES

##### TERMINAL BOX WITH PIGTAIL

361104	RT 2 A PT	Roseta terminal fibra con dos adaptadores antipolvo SC/APC y 2 pigtails fusionables	1/80
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##### ROSETAS VACÍAS Y ADAPTADORES DE FIBRA / BAT FIBRA

361101	RT FO	Empty optical fiber terminal rosette box. SC/APC adapters not included. Fits standard single back boxes	1/25
363001	A SCAPC S	Simplex SC/APC adapter with mounting flange	50/2000
363003	A SCAPC AD	Simplex SC/APC adapter with anti dust cap	25/2000
363011	TP AD S	Protective cap for front telescopic tray SC connector	100
366001	PFF 45	45mm heat shrinkable sleeves for fiber fusion. 50 pcs bag	1

##### TELEPHONY MULTIPLEXER

399001	MP 18	Cat6 passive telephony multiplexer. 1 input / 8 outputs. With extractable cable RJ11/RJ45	1/16
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**FIBER CONNECTOR**

363021	CM SA	Mechanical SC/APC connector for single mode fiber	10/100
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**R C6**

**TERMINAL BOXES AND CONNECTORS**

393021	R C6	Data terminal rosette box with dust cap. Keystone not included	1/16
393005	KJ C6A	Cat6A UTP keystone jack / female connector	1/100
393007	KJ C6A-TL	Tool-less Cat6A UTP keystone jack female connector	1/100
393022	KJ C6 HQ	Keystone jack / CAT6 UTP female connector without tool, wing nut type.	1/100
393006	KJ C6A-FTL	Tool-less Cat6A FTP keystone jack female connector	1/50
393003	RJ45 C6	Cat6 UTP RJ45 male connector	10/1000
393008	RJ 45U C6A	RJ45 Cat6A UTP fast male connector	10/1000
393009	RJ 45F C6A	RJ45 Cat6A FTP fast male connector	10/1000
393004	C RJ45	White cap for male RJ45 connector	10/250
393010	C RJ45 Y	Yellow cap for male RJ45 connector	10/3000
393013	C RJ45 R	Red cap for male RJ45 connector	10/3000
393014	C RJ45 B	Blue cap for male RJ45 connector	10/3000
393015	C RJ45 G	Grey cap for male RJ45 connector	10/3000



**KJ C6 HQ**



**KJ C6A-TL**

**KJ C6A-FTL**



**RJ45 UC6A · RJ45 F6A**

**FIBER TOOLS**

394001	H KJ	KJ C6/KJ C6A keystone jack insertion and cut tool	1
394002	H RJ45	Crimping tool for RJ45 C6 connector	1
394003	HCC RJ45	Tool for fast male RJ45 connectors	1/20



**H RJ45**

**FIBER CABLE - CPR DCA\***

360010	CFO 12 900-D	12 single-mode tight-buffered fibers cable 900um G657-A2 LSZH CPR Dca. Packed by meter	m
360011	CFO 24 900-D	24 single-mode tight-buffered fibers cable 900um G657-A2 LSZH CPR Dca. Packed by meter	m
360012	CFO 48 900-D	48 single-mode tight-buffered fibers cable 900um G657-A2 LSZH CPR Dca. Packed by meter	m
360007	CFC	Fiber cutting service	1
360015	CPF	Big reel for fiber optical cable	1
360020	CPF 2	Small reel for fiber optical cable	1



**HCC RJ45**

\* Please refer to the full range in the **OPENETICS** catalog

**FIBER CABLE EK ROLLER- CPR DCA**

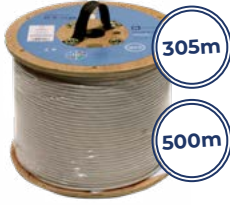
360025	CFOR 2 900-D	2 single-mode 900um fibers cable G657-A2 LSZH white CPR Dca. <b>500m reel</b>	1/36/72
360026	CFOR 2 900N	2 single-mode 900um fibers cable G657-A2 BLACK FR-LSZH-UV for outdoor installations. <b>500m reel</b>	1/36/72



**CFOR 2 900-D**



Accede al video demostrativo del EK ROLLER



CLUR 6 CUD



CLU 6 CUD

LAN CABLE EK ROLLER - CPR DCA

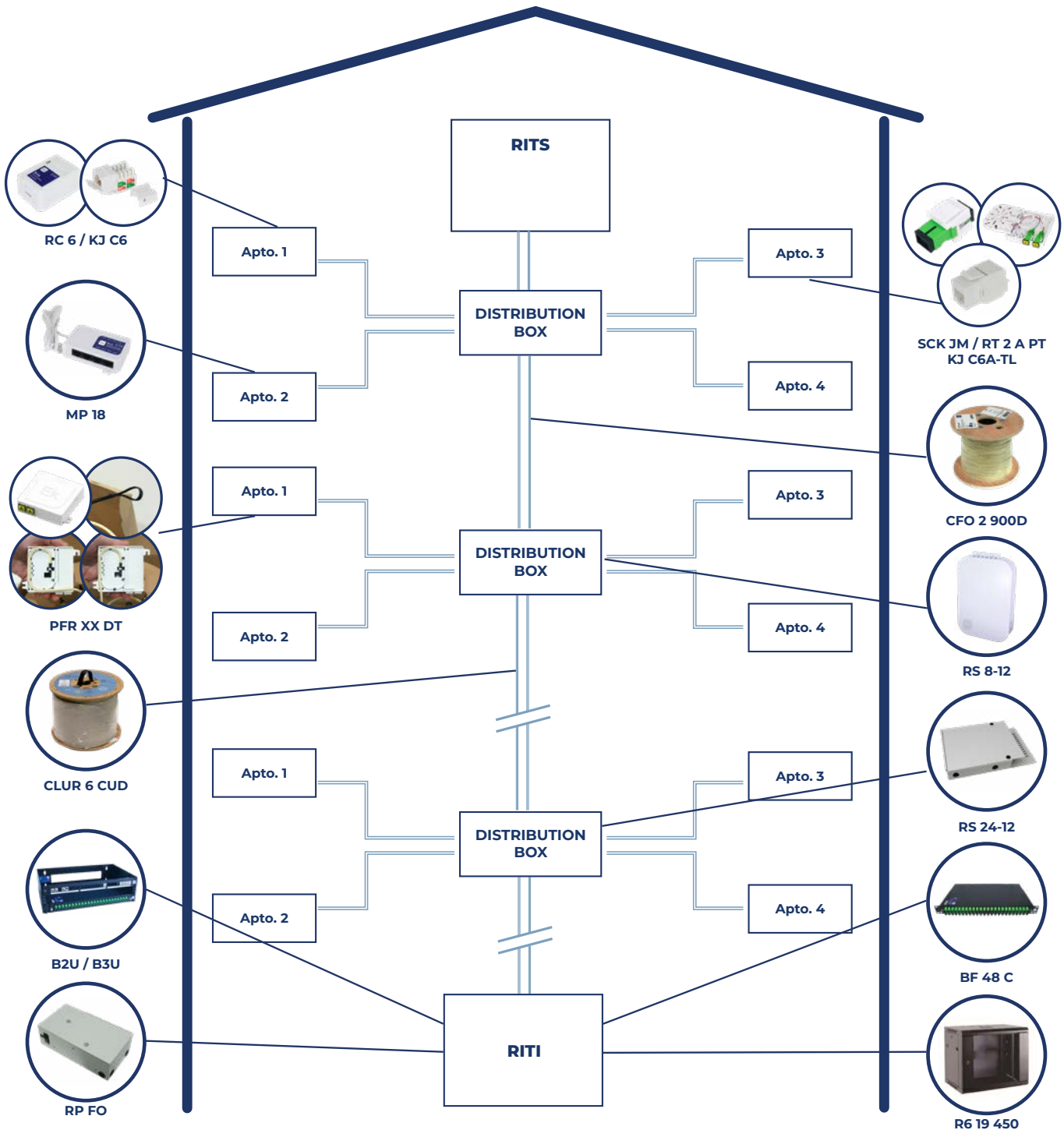
390018	CLUR 6 CUD <b>E</b>	LAN cable Cat6 U / UTP CU white LSZH CPR Dca. <b>305m wooden drum</b> for EK ROLLER	1/36/72
390026	CLUR 6 CUD/500 <b>E</b>	LAN cable Cat6 U / UTP CU white LSZH CPR Dca. <b>500m wooden drum</b> for EK ROLLER	1/36/72

CABLE DE DATOS\* CPR Dca PULL-BOX

390010	CLU 6 CUD <b>E</b>	LAN cable Cat6 U/UTP CU LSZH CPR Eca, <b>pull-box 305m</b>	1/36/72
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\*Ver otros cables de datos disponibles en la página 74

EXAMPLE OF FIBER OPTIC AND DATA INSTALLATION





# 03

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RECEIVERS,  
MODULATORS  
AND REMOTE CONTROL  
IR EXTENDERS



EK DR-2



EK TC DROID



EN 2HD-IP



MD HD EASY LOOP



MD HD EASY TWIN



FA 505

**ANDROID BOX**

180032	EK DR-2	Android 4K/HD Receiver, H264/H265, WiFi 2.4/5GHz, 2 USB 2.0 ports, 1 HDMI connector, 1 AV connector, Bluetooth remote control.	1/20
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**DVB-T2 + ANDROID RECEIVER**

180021	EK TC DROID	DVB-T/T2/C UHD H265 + ANDROID TV 4K digital receiver. WiFi 2,4 GHz. Universal remote control	1/20
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**ENCODER / STREAMER TWIN**

284001	EN 2HD-IP	2 HDMI inputs encoder/streamer. IP multicast / HLS / RTMP output for local or public network (internet) of online content. Up to 25 simultaneous users	1/18
180036	EK PLAYER	STB for IP channels on TVs using EN 2HD IP solution	1

**HD DIGITAL MODULATORS**

122008	MD HD EASY	HD digital encoder modulator HDMI to COFDM/QAM. 1 input HDMI up to 1080p. Output frequency: 170-230 MHz + 470-862 MHz. Output level (DIN 45004B): > 80 dBuV. RF mix input (5-862 MHz). USB for professional values programming	1/15
122011	MD HD EASY LOOP	HD digital encoder modulator HDMI to COFDM/QAM. 1 input HDMI + 1 HDMI LOOP up to 1080p. Output frequency: 170-230 MHz + 470-862 MHz. Output level (DIN 45004B): > 80 dBuV. RF mix input. USB for professional values programming	1/15
122014	MD HD EASY RC	Digital modulator to COFDM/QAM. 1 input + HDMI LOOP up to 1080p. Output frequencies: 170-230MHz + 470- 862MHz. Output level (DIN 45004B):> 80dBµV. RF mix input (5-862MHz). USB recorder / player. USB for programming professional parameters. IR transmitter 33-56 KHz (included). 80dB dynamic margin. 5Vdc selectable power supply for TRC	1/15
122013	MD HD EASY TWIN	HD digital encoder modulator HDMI to COFDM/QAM. 2 input HDMI up to 1080p. Output frequency: 170-230 MHz + 470-862 MHz. Output level (DIN 45004B): > 80 dBuV. RF mix input (5-862 MHz). USB for TS files record and play + USB for professional value programming	1/12
125002	TRC	Universal remote control IR receiver for MD HD EASY RC. 80db dynamic margin. Power supply not included.	1/12
124007	FA 505	Power supply 5Vdc / 500mA for TRC	1/12



**HD DIGITAL MODULATORS 4K COMPATIBLE**

122015	MD HD L4K	HD digital encoder modulator HDMI to COFDM/QAM/ISDB-T. 1 input HDMI + 1 HDMI LOOP 4K. Output frequency: 170-230 MHz + 470-862 MHz. Output level (DIN 45004B): > 80 dBuV. RF mix input (5-862MHz). USB for professional values programming	1/15
122016	MD HD L4K RC	Digital modulator to COFDM/QAM/ISDB-T. 1 input + HDMI LOOP 4K. Output frequencies: 170-230MHz + 470- 862MHz. Output level (DIN 45004B):> 80dBµV. RF mix input (5-862MHz). USB recorder / player. USB for programming professional parameters. IR transmitter 33-56 KHz (included). 80dB dynamic margin. 5Vdc selectable power supply for TRC	1/15
125002	TRC	Universal remote control IR receiver for MD HD L4K RC. 80db dynamic margin. Power supply not included.	1/12
124007	FA 505	Power supply 5Vdc / 500mA for TRC	1/12
059001	AMCD	DIN rail fixing accessory (for MD modulators)	1/1000



**MD HD L4K RC**



**TRC**



**MD A**

**POWER SUPPLY**

122009	FA MD	Replacement power supply for MD digital modulators. 5Vdc / 2A	1
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**ANALOG MODULATOR**

121001	MD A	Multistandard audio/video analog modulator. Output channels: E2-E4, E5-S20, C21-69. Output level (DIN 45004B): 90 dBuV. RF mix input (5-862MHz)	10/60
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**CHD**

**CABLES AND ADAPTERS FOR MODULATORS**

123001	CSR	Cable SCART IN / 3 x RCA 1,5 m	25/100
125001	CHD	1,5 m HDMI male - HDMI male V2.0 cable	6/120
165010	HDM 90F	HDMI male - HDMI female 90° flat adaptor	10



**HDM 90F**

**REMOTE CONTROL EXTENDERS**

124008	IR-W2	Remote control wireless universal repeater (30-60KHz) . Transmitter-receiver kit. Switchable control frequency.	1/10
124009	IR-W2 EXT	Additional wireless transmitter	1/10
124010	IR-RC	Coaxial cable remote control universal repeater. Transmitter 33/56 KHz 80dB dynamic range. Power supply for additional transmitters. Transmitter + receiver kit and 2 power supplies	1/40
125002	TRC	Universal remote control IR receiver for MD HD EASY RC/IR-RC. Power supply not included.	1/12
124007	FA 505	Power supply 5Vdc / 500mA for TRC	1/12



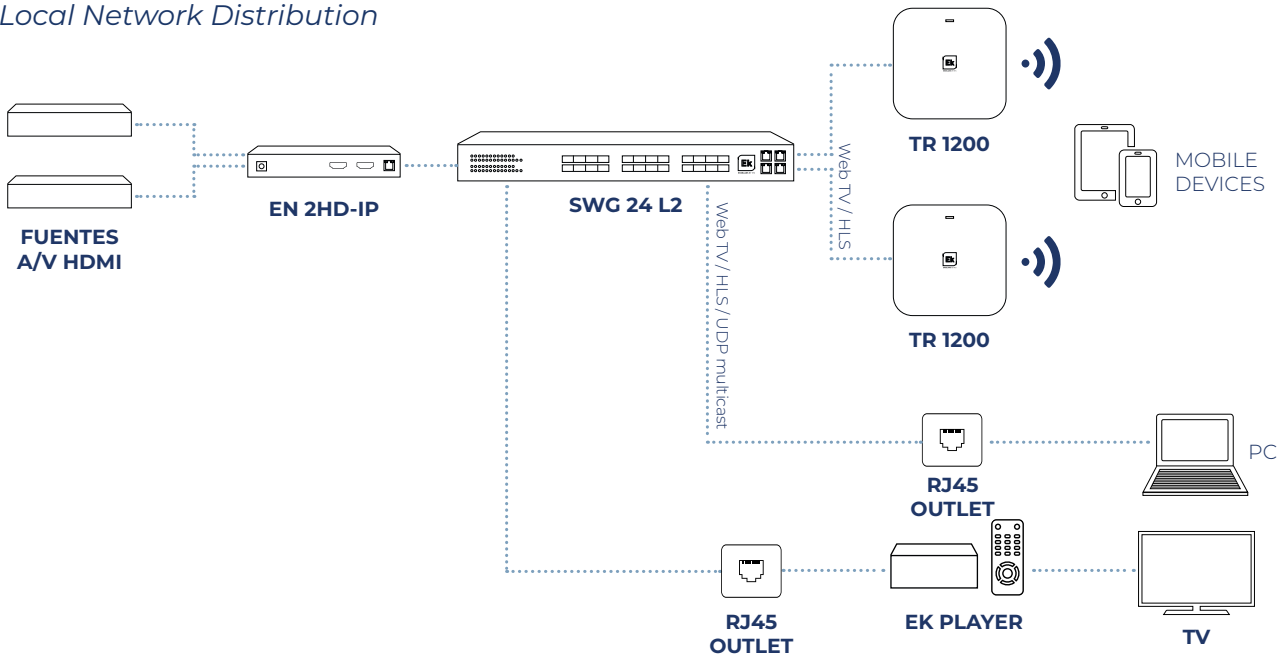
**IR W2**



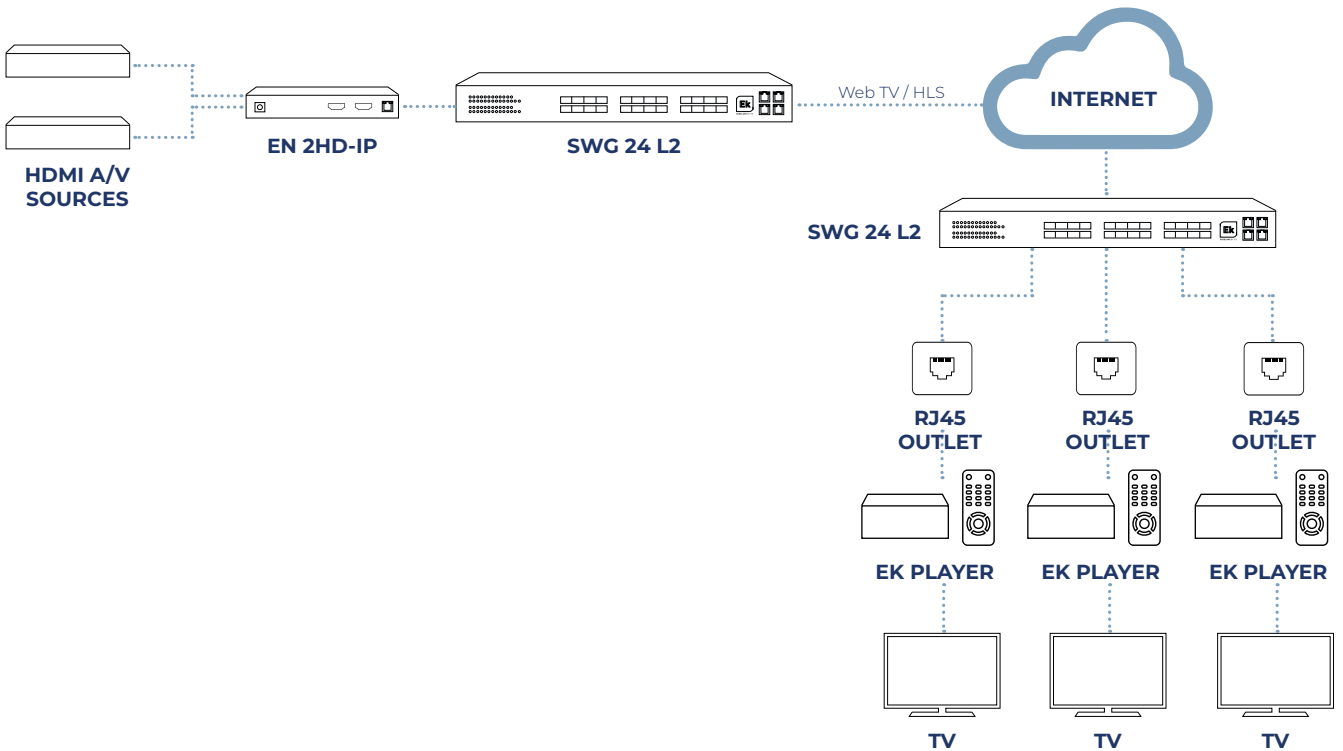
**IR-RC**

## INSTALLATION EXAMPLES IN 2HD-IP

### Local Network Distribution



### Installation for internet transmission. Transmission with EN 2HD-IP and reception with EK PLAYER



# 04

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MULTIFUNCTIONAL  
CM HEADEND /  
TRANSMODULATORS  
AND STREAMERS

EK  
EKSELANS



CM COMPACT 8S4



CM COMPACT PLUS 8S4



CM COMPACT PLUS 8S8



CONVIERTE  
8 CANALES  
TDT HD A SD



KIT CM COMPACT AV 8



8 TUNERS +  
HDMI + USB

CM 8SH-TC

## COMPACT HEADENDS

## SATELLITE DVB-S MULTISTREAM TO DVB-T/C PROGRAMMABLE - HIGH POWER

085006	CM COMPACT 2S2	Transmodulator 2 inputs (2 tuners) DVB S-S2 + loop. COFDM-QAM output. Output level: 95dB $\mu$ V. MER> 35dB. Intelligent remultiplexing of services. 2 RF output channels (flexibles). 13 / 18V, 22KHz and DiSEqC. Programming via PC. Power supply included	1
085001	CM COMPACT 8S4	Transmodulator 4 inputs (8 tuners) DVB S-S2 multistream. BISS compatible. COFDM-QAM output. Output level: 95dB $\mu$ V. MER> 35dB. Intelligent remultiplexing of services. 4 RF output channels (adjacent). 13 / 18V, 22KHz and DiSEqC. Programming via PC. Power supply included	1
085002	CM COMPACT 8S8	Transmodulator 4 inputs (8 tuners) DVB S-S2 multistream. BISS compatible. COFDM-QAM output. Output level: 95dB $\mu$ V. MER> 35dB. Intelligent remultiplexing of services. 8 RF output channels (4 + 4 adjacent). 13 / 18V, 22KHz and DiSEqC. Programming via PC. Power supply included	1
080010	CH 3 COMPACT <b>E</b>	3-unit wall chassis COMPACT series	1
080011	CH 2 COMPACT <b>N</b>	2-unit wall chassis COMPACT series	1
080012	CHR COMPACT <b>N</b>	6-unit wall chassis COMPACT series	1
085011	CM COMPACT PLUS 2S2	Transmodulator 2 inputs (2 tuners) DVB S-S2 + loop. COFDM-QAM output. Output level: 95dB $\mu$ V. MER> 35dB. Intelligent remultiplexing of services. 2 RF output channels (flexibles). 13 / 18V, 22KHz and DiSEqC. Programming via PC. Modular power supply and amplifier with real 114dB $\mu$ V per channel	1
085007	CM COMPACT PLUS 8S4	Transmodulator 4 inputs (8 tuners) DVB S-S2 multistream. BISS compatible. COFDM-QAM output. Output level: 95dB $\mu$ V. MER> 35dB. Intelligent remultiplexing of services. 4 RF output channels (adjacent). 13 / 18V, 22KHz and DiSEqC. Programming via PC. Modular power supply and amplifier with real 112dB $\mu$ V per channel	1
085008	CM COMPACT PLUS 8S8	Transmodulator 4 inputs (8 tuners) DVB S-S2 multistream. BISS compatible. COFDM-QAM output. Output level: 95dB $\mu$ V. MER> 35dB. Intelligent remultiplexing of services. 8 RF output channels (4 + 4 adjacent). 13 / 18V, 22KHz and DiSEqC. Programming via PC. Modular power supply and amplifier with real 108dB $\mu$ V per channel	1

## DVB-T/T2 to COFDM SD MPEG-2

085005	KIT CM COMPACT AV 8	Headend kit for conversion of 8 DVB-T/DVB-T2 programs - H264/H.265 in to COFDM SD MPEG 2. 2 COFDM multiplex output	1
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## MULTIFUNCTIONAL HEADENDS

## DVB-S/S2 + HDMI + USB TO DVB-T/C FLEXIBLE

082255	CM 8SH-TC	Transmodulator with 4 inputs for 8 DVB-S/S2/S2X tuners. 13/18V, 22KHz, DiSEqC. Unicable (SATCR-DCSS). HDMI IN, USB player. Programable COFDM/QAM output in 4 flexible channels. Output level: 95 dB $\mu$ V. MER >35dB. Smart services remultiplexing. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply	1
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## DVB-S/S2 + HDMI + USB TO DVB-T/C FLEXIBLE + IP

082257	CM 8SH-TC/IP <b>64 STREAMS IP*</b>	Transmodulator with 4 inputs for 8 DVB-S/S2/S2X tuners. 13/18V, 22KHz, DiSEqC. Unicable (SATCR-DCSS). HDMI IN, USB player. Simultaneous IP output + 4 flexible COFDM/programmable QAM output channels. Output level: 95 dB $\mu$ V. MER> 35dB. Smart services remultiplexing. Up to 64 SPTS/MPTS output IP streams. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply	1
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\* 64 streams for a maximum of 64 services. Up to 300Mbps maximum.

**ENTRADA SATÉLITE + CI - SALIDA DVB-T / DVB-C PROGRAMABLE**



**CM 2S 2CI-2TC**



**CM 8S 4CI-4TC**



**CM 8S 2CI-8TC**



**CM 4T CI-TC**



**CM 4HD-T**

082327	CM 2S 2CI-2TC	Transmodulator with 2 inputs for 2 DVB S/S2 tuners + loop with dual Common Interface (2xCI). 13/18V, 22KHz, DiSEqC. COFDM/QAM output. Output level: 95dB $\mu$ V. MER >35dB. Intelligent services remultiplexing. 2 RF output channels (flexibles). Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply	1
082323	CM 8S 2CI-4TC	Transmodulator with 4 inputs for 8 DVB tuners S/S2/S2X, with dual Common Interface (2xCI). 13/18V, 22KHz, DiSEqC, Unicable ((SATCR-DCSS). Multistream/BISS supported. COFDM-QAM output. Intelligent services remultiplexing. 4 RF output channels (adjacent). Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply	1
082325	CM 8S 4CI-4TC	Transmodulator with 4 inputs for 8 DVB tuners S/S2/S2X, with quad Common Interface (4 x CI). 13/18V, 22KHz, DiSEqC, Unicable ((SATCR-DCSS). Multistream /BISS supported. COFDM-QAM output. Intelligent services remultiplexing. 4 RF output channels (adjacent). Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply	1
082324	CM 8S 2CI-8TC	Transmodulator with 4 inputs for 8 DVB tuners S/S2/S2X, with dual Common Interface (2 x CI). 13/18V, 22KHz, DiSEqC, Unicable ((SATCR-DCSS). Multistream /BISS supported. COFDM-QAM output. Intelligent services remultiplexing. 8 RF output channels (4 + 4 adjacent). Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply	1
082326	CM 8S 4CI-8TC	Transmodulator with 4 inputs for 8 DVB tuners S/S2/S2X, with quad Common Interface (4 x CI). 13/18V, 22KHz, DiSEqC, Unicable ((SATCR-DCSS). Multistream/BISS supported. COFDM-QAM output. Intelligent services remultiplexing. 8 RF output channels (4 + 4 adjacent). Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply	1

**DVB-T/T2/C TO DVB-T/C FLEXIBLE**

082258	CM 4T-TC	Transmodulator with 1 input for 4 DVB-T/T2/C + Loop independent tuners. Programmable COFDM / QAM output in 4 flexible channels. Output level: 95 dB $\mu$ V. MER > 35dB. Smart services remultiplexing. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply	1
082259	CM 4T-CI-TC	Transmodulator with 1 input for 4 DVB-T/T2/C + Loop independent tuners with 2x Common Interface (CI). Programmable COFDM / QAM output in 4 flexible channels. Output level: 95 dB $\mu$ V. MER > 35dB. Smart services remultiplexing. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply	1

**HDMI/AV TO DVB T/C PROGRAMMABLE\***

082004	CM 4HD-TC	Encoder 4 x HDMI / COFDM – QAM. Output level: 95dB $\mu$ V. MER >35dB. Remultiplexing of 4 HDMI inputs in 2 adjacents RF output channel DVBT/ DVBC. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply	1
082022	CM 4HD-T	Encoder 4xHDMI/COFDM. Output level: 95dB $\mu$ V. MER >35dB. Remultiplexing of 4 HDMI inputs in 2 adjacents RF output channel DVBT/ DVBC. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply	1



CM 4AV-TC



CM 8S-IP



CM 8S 2CI-IP



CM 8S 4CI-IP



CM 8TC-IP

## HDMI/AV TO DVB T FLEXIBLE\*

082025	CM 2AV-T	Encoder 2 x AV (CVBS) / COFDM. Output level: 95 dBuV. MER >35dB. Remultiplexing of 2 x AV inputs in one single output channel DVBT. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply	1
082003	CM 4AV-TC	Encoder 4 x AV (CVBS) / COFDM-QAM. Output level: 95 dBuV. MER >35dB. Remultiplexing of 4 x AV inputs in one single output channel DVBT/ DVBC. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply	1

## ENTRADA SATÉLITE + HDMI - SALIDA IP

082294	CM 8S-IP 64 STREAMS IP*	Streamer with 4 inputs for 8 DVB-S/S2/S2X tuners. 13/18V, 22KHz, DiSEqC, Unicable (SATCR-DCSS). Multistream / BISS compatible. Up to 64 SPTS/MPTS output IP streams. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply	1
082262	CM 8SH-IP 64 STREAMS IP*	Streamer with 4 inputs for 8 DVB-S/S2/S2X tuners. 13/18V, 22KHz, DiSEqC, Unicable (SATCR-DCSS). HDMI IN, media file player via USB. Multistream / BISS compatible. Up to 64 SPTS/MPTS output IP streams. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply	1
082295	CM 8S 2CI-IP 64 STREAMS IP*	Streamer with 4 inputs for 8 DVB tuners S/S2/S2X, with dual Common Interface (2 x CI). 13/18V, 22KHz, DiSEqC, Unicable ((SATCR-DCSS). Multistream /BISS supported. Up to 64 SPTS/MPTS output IP streams. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply	1
082322	CM 8S 4CI-IP 64 STREAMS IP*	Streamer with 4 inputs for 8 DVB tuners S/S2/S2X, with quad Common Interface (4 x CI). 13/18V, 22KHz, DiSEqC, Unicable ((SATCR-DCSS). Multistream /BISS supported. Up to 64 SPTS/MPTS output IP streams. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply	1

\* 64 streams for a maximum of 64 services. Maximum 300Mbps.

## DVB-T/T2/C TO IP



082260	CM 4T-IP 64 STREAMS IP*	Streamer with 1 input for 4 DVB-T/T2/C + Loop independent tuners. Up to 64 SPTS/MPTS output IP streams. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply	1
082261	CM 4T-CI-IP 64 STREAMS IP*	Streamer with 1 input for 4 DVB-T/T2/C + Loop independent tuners with 2x Common Interface (CI). Up to 64 SPTS/MPTS output IP streams. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply	1
082293	CM 8TC-IP 64 STREAMS IP*	Streamer with 2 inputs and 4 DVB-T/T2/C independent tuners for each input or 1 Loop input. Up to 64 SPTS/MPTS output IP streams. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply	1

\* 64 streams para un máximo de 64 servicios. 300Mbps máximo

## HDMI/AV TO IP


082007	CM 4AV-IP	Streamer 4 x AV (CVBS) to IP. 1000 Mbps output. RTP/UDP. QoS. 1000 Mbps output. RTP / UDP. QoS.	1
082008	CM 4HD-IP	Streamer 4 x HDMI (up to 1080p) to IP. 1000 Mbps output. RTP / UDP. QoS.	1

### IP TO DVB T/C PROGRAMMABLE

082018	CM IP-TC 	IP input 31 streams SPTS / MPTS. 1000Mbps. RTP / UDP. COFDM-QAM output. Output level: 95dBμV. MER >35dB. 4 RF output muxes (flexibles). Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply	1
082019	CM IP CI-TC 	IP input 31 streams SPTS / MPTS. 1000Mbps. RTP / UDP. 2x Common Interface CI. COFDM-QAM output. Output level: 95dBμV. MER >35dB. 4 RF output muxes (flexibles). Programación via PC. Telecontrol a través de RJ45 en la fuente de alimentación FA 524	1

\*32 services per stream. Maximum 512 services and 200Mbps IP.

### IP TO IP

082037	CM IP CI-IP 	IP input 31 streams SPTS / MPTS. 1000Mbps. RTP / UDP. 2 x Common Interface CI. Output IP 1000 Mbps. RTP-UDP. QoS. Up to 64 SPTS/MPTS output IP streams. Setup and management using CM Management PC software. Remote management via ethernet port in FA 524 Key. Local management via USB or ethernet port.	1
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\*32 services per stream. Maximum 512 services and 300Mbps

### 1 GHZ OPTICAL TRANSMITTER

274101	CM TO 3-1310	Modular optical transmitter IN 47-1000MHz / OUT 1310nm DFB laser. Optical power 3dBm. SC / APC. Built-in power supply	1
274106	CM TO 3-1550	Modular optical transmitter IN 47-1000MHz / OUT 1550nm DFB laser. Optical power 3dBm. SC / APC. Built-in power supply	1

### 2,6 GHZ OPTICAL TRANSMITTER

274100	CM TO 3 FI-1310	Optical transmitter IN 30-2600 MHz / OUT 1310 nm, DFB laser. Optical power 3 dBm. SC / APC. Built-in power supply. CM headend compatible	1
274107	CM TO 3 FI-1550	Optical transmitter IN 30-2600 MHz / OUT 1550 nm, DFB laser. Optical power 3 dBm. SC / APC. Built-in power supply. CM headend compatible	1
274102	CM TO 10 FI-1550	Optical transmitter IN 30-2600 MHz / OUT 1550 nm, DFB laser. Optical power 10 dBm. SC/APC. Built-in power supply. CM headend compatible	1

### EDFA

274108	CM EDFA 122	Optical amplifier 1550nm DFB laser. Optical power 22dBm. Built-in power supply.	1
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### OPTICAL SPLITTER

274103	CM RF 2	2-way optical splitter compatible with CM headend modules	1
274104	CM RF 4	4-way optical splitter compatible with CM headend modules	1
274105	CM RF 8	8-way optical splitter compatible with CM headend modules	1

### ACCESSORIES

082009	FA 524	Modular power supply 5 Vdc - 20 A. Includes RJ45 remote management and USB programming	1
082045	FA 524 KEY	Modular power supply 5 Vdc - 20 A. Includes RJ45 remote management and USB programming. CM KEY included	1
082329	CM AMP 114	Amplifier for CM series G: 20dB. Output level (DIN 45004B) 114dBμV	1
082010	FA 55	Power supply 5Vdc - 5A for CM headend FTA modules and multi-input modulators. Supports a CM module + LNB. Requires CM PR	1
082014	CM PR	External device for programming CM headend. Requires FA 55	1
082015	CM KEY	Key for remote access control to CM headend	1
080005	CHM TR	Wall-mount support, 6 units (5 modules + 1 power supply)	1
080008	CH 3 TR	Wall-mount support, 3 units (2 modules + 1 power supply)	1
080006	CHR TR	Support for 19" rack, 6 units (5 modules + 1 power supply)	1



CM IP CI-TC



CM TO 3-1310



FA 524



CM AMP 114



CH3 TR

# TECHNOLOGICAL SOLUTIONS FOR HOSPITALITY AND HEALTHCARE SECTOR

EK offers a wide range of technological solutions for the hotel and healthcare sectors, enabling them to meet current connectivity and entertainment needs and demands.

Leveraging in-house developments, EK provides a **comprehensive range** of professional equipment that can create advanced multimedia environments in hotels, including Chromecasting, IPTV, and mobile device streaming. This can be achieved by either updating existing infrastructures without the need for construction work or implementing advanced FTTR (Fiber-To-The-Room) systems over fiber optics.



**RF TRANSMODULATORS**

**IP STREAMERS**

**EK HOTEL IPTV SYSTEM**

**IPTV TRANSMISSION SYSTEMS OVER PUBLIC INTERNET**

**DIGITAL SIGNAGE**

**CHROMECASTING**

**VIDEO-ON-DEMAND (Vod)**

**FTTR-GPON**

**WIFI**

**EKOAX**

**ENTERTAINMENT AND INTERACTIVITY**

Access the 'Hospitality' section on our website.





# 05

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HOSPITALITY AND  
SOCIAL HEALTH/  
IPTV SERVERS/  
CHROMECASTING/ OTT  
AND OPERATORS



EK BRIDGE · EK LINK



FA 510



EK LINK R



EK STREAM PLUS · OTT BY EK



New version with 2 playout services

EK HOTEL TV / EK HOTEL TV PRO



**TRANSCODING, TRANSRATING, OTT AND STREAMING**

280026	EK BRIDGE	Encapsulator / desencapsulator of content multicast in HTTP (up to 20 services SD/15 HD) for public internet transmission Point to Point.	1
280027	EK LINK	Bidirectional IP converter / adapter between multicast and WebTV protocols (HLS / RTMP / MPEG-DASH) for TV services with audio transcoding capabilities (up to 20 SD services or 15 HD services). Power supply not included	1
280052	EK LINK R	Bidirectional IP converter / adapter between multicast and WebTV protocols (HLS/RTMP/MPEG-DASH) for TV services with audio transcoding capabilities (up to 20 SD services or 15 HD services). 19" rack format	1
280044	EK STREAM PLUS	Transcoder MPEG-2 / H-264 / H265 for TV channels (up to 30 SD or 15 HD). IP input / output. Bidirectional conversion capability between multicast protocols and WebTV (HLS / RTMP / MPEG-DASH)	1
280032	OTT BY EK*	OTT server for a maximum of 64 services and 250 simultaneous users. It includes a video engine for different WebTV formats (HLS / RTMP / MPEG-DASH) and a configurable, multi-device web portal for accessing services through a browser. Restricted access option through tokens and interface for integration with payment gateways. Payout with optimized switching. DRM-compliant	1
280031	EK STREAM PLUS + OTT*	OTT server for a maximum of 30 services and 125 simultaneous users with the ability to pre-transcode services (up to 16 SD services / 8 HD services). IP input and output. Bidirectional conversion capability between multicast and WebTV protocols (HLS / RTMP / MPEG-DASH). It includes a video engine for different WebTV formats (HLS, RTMP, MPEG DASH) and a configurable, multi-device web portal for accessing services through a browser, with the option of restricted access using tokens and with an interface for integration with payment gateways.	1
180035	STB PROF	IPTV 4K receiver for OTT by EK	1
280049	EK EPG	Flexible Electronic Program Guide (EPG) generation service for OTT and DVB platforms. Management from the cloud via web interface	1
311008	EK SOP	Servers remote support and commissioning	1

\*Consult annual license

**HOSPITALITY/ SOCIAL HEALTH/IPTV/ CHROMECASTING**

280029	EK STREAM BASIC	Transcoder MPEG-2 / H-264 / H265 for TV channels (up to 4 SD or 2 HD). IP input / output. Bidirectional conversion capability between multicast protocols and WebTV (HLS / RTMP / MPEG-DASH). CM module format. Power supply not included	1
280044	EK STREAM PLUS	Transcoder MPEG-2 / H-264 / H265 for TV channels (up to 30 SD or 15 HD). IP input / output. Bidirectional conversion capability between multicast protocols and WebTV (HLS / RTMP / MPEG-DASH)	1
280047	EK HOTEL TV	IPTV multicast and WebTV server for hotels. Simplified configuration web portal. Channels list management and customizable information per user. STB PROF devices remote management. WebTV channel transmission (HLS / RTMP / MPEG-DASH) and IP multicast. 2 playout services. CM module format. Power supply not included	1
280059	EK HOTEL TV PRO	IPTV multicast and WebTV server for hotels. Simplified configuration web portal. Channels list management and customizable information per user. STB PROF devices remote management. WebTV channel transmission (HLS / RTMP / MPEG-DASH) over WiFi for up to 20 SD or 7HD services and 70 users. 2 playout services. Power supply not included	1
280082	MVOD	VOD option for EK HOTEL TV / EK HEALTH	1

New version with VoD and 5 playout services



EK HOTEL TV PLUS



EkHEALTH



New version with 2 playout services

EK HEALTH / EK HEALTH PRO



RGM



EkCAST



EK CAST



CRP 4K



Example of welcome screen EK CAST

280083	MPT	Task planner option for EK HOTEL TV / EK HOTEL TV PRO	1
280048	EK HOTEL TV PLUS	IPTV multicast and WebTV server for hotels. Simplified configuration web portal. Channels list management and customizable information per user. STB PROF devices remote management. WebTV channel transmission (HLS / RTMP / MPEG-DASH) over WiFi for up to 64 SD or 22HD services and 250 users. Playout 5 services. VOD	1
280064	EK HEALTH	IPTV multicast and WebTV server for hospitals and care homes. Simplified configuration web portal. Channels list management and customizable information according to patient or resident requirements. Create notifications, alerts or alarms addressed to the staff in charge of the patient or resident care. Centralized control for switching receivers off/of and maximum volume limitation. Centralized channel selection and scheduling. WebTV channel transmission (HLS / RTMP / MPEG-DASH) and IP multicast. 2 playout services. CM module format. Power supply not included	1
280065	EK HEALTH PRO	IPTV multicast and WebTV server for hospitals and care homes. Simplified configuration web portal. Channels list management and customizable information according to patient or resident requirements. Create notifications, alerts or alarms addressed to the staff in charge of the patient or resident care. Centralized control for switching receivers off/of and maximum volume limitation. Centralized channel selection and scheduling. WebTV channel transmission (HLS / RTMP / MPEG-DASH) over WiFi for up to 20 SD or 7HD services and 70 users. 2 playout services. Power supply not included	1
280066	EK HEALTH PLUS	IPTV multicast and WebTV server for hospitals and care homes. Simplified configuration web portal. Channels list management and customizable information according to patient or resident requirements. Create notifications, alerts or alarms addressed to the staff in charge of the patient or resident care. Centralized control for switching receivers off/of and maximum volume limitation. Centralized channel selection and scheduling. WebTV channel transmission (HLS / RTMP / MPEG-DASH) over WiFi for up to 64 SD or 22HD services and 250 users. Playout 5 services. VOD	1
180035	STB PROF	IPTV 4K receiver for EK HOTEL TV / EK HEALTH	1
180033	MSTB	Simple remote control for STB IP BASIC / STB PROF	1

**HOSPITALITY / CHROMECASTING**

280070	RGM	Multi-port router (10 x 1Gb)	1
280055	EK CAST MINI	Chromecast management server for up to 40 devices (L CAST license included). Desktop format	1
280053	EK CAST	Chromecast management RACK server for up to 250 users	1
280084	EK CAST PLUS	Chromecast management RACK server for up to 500 users	1
280093	CRP 4K	Chromecast device with assembled protector (DPC)	1
280098	MU CAST	Universal remote control for TV and CAST device.	1
125004	CHD CR	0.5 m male-female HDMI cable	1
280056	L CAST	Licenses for Chromecast devices (based on the number of devices managed by the server)	1
280092	L CAST TV	Management system for hospitality TVs with integrated Chromecast	1
280097	L CAST LG	Management system for LG TVs with built-in Chromecast.	1
280058	IPMS	Integration with PMS CHAR (EK HOTEL TV, EK CAST, Professional HotSpot)	1
311008	EK SOP	Servers remote support and commissioning	1



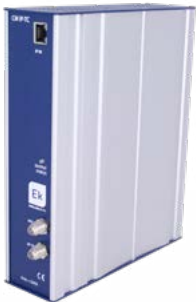
SWG 24 L2



EN 2HD-IP



CHR TR



CM IP-TC



UPS 1000

**MANAGED SWITCH**

334200	SWG 24 L2	Ethernet Layer2 Managed Switch . 24 ports x 1Gbps Ethernet + 4 x SFP 1Gbps	1
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**TWIN ENCODER/STREAMER**

284001	EN 2HD-IP	2 HDMI inputs encoder/streamer. IP multicast / HLS / RTMP output for local network or online transmission. Up to 25 simultaneous users	1/18
180036	EK PLAYER	STB for IP channels on TVs using EN 2HD IP solution	1

**IP TO DVB T/C PROGRAMMABLE HEADENDS**

082018	CM IP-TC 	IP input 15 services SPTS / MPTS. 100Mbps. RTP / UDP. Output level: 95dBuV. MER >35dB. 4 RF output muxes (adjacent). Programming by PC connected to power supply. Remote control on-board via power supply	1
082019	CM IP CI-TC 	IP input + 2 x Common Interface. 15 services SPTS / MPTS. 100Mbps. RTP / UDP. 2 slots CI. 2Output level: 95dBuV. MER >35dB. 4 RF output muxes (adjacent). Programming by PC connected to power supply. Remote control on-board via power supply	1
082009	FA 524	Modular power supply 5 Vdc - 24 A with remote control	1
080006	CHR TR	Support for 19" rack, 6 units	1

\* 32 services per stream. Maximum 512 services and 200 Mbps

**HDMI/AV TO IP HEADENDS**

082007	CM 4AV-IP	Streamer 4 x AV (CVBS) to IP. 1000 Mbps output. RTP/UDP QoS.	1
082008	CM 4HD-IP	Streamer 4 x HDMI (up to 1080p) to IP. 1000 Mbps output. RTP / UDP. QoS.	1

**UPS**

312004	UPS 1000	1KVA online UPS. 92% AC/AC efficiency. Power factor 0.9. Autonomy 9 minutes. Display and rack format 19"	1
312005	PB UPS	External batteries	1
312006	SNMP UPS	SNMP control board	1

**DO YOU KNOW OUR PROFESSIONAL IPTV SOLUTIONS?**

**IPTV PROFESSIONAL SOLUTIONS**

STREAMING  
IP MULTICAST AND WEB TV

OTT SYSTEMS

IPTV POINT-TO-POINT  
AND POINT-TO-MULTIPOINT

TRANSCODING  
AND TRANSRATING

**FIELD OF APPLICATION**

HOTELS AND HOSPITALS

TELECOM OPERATORS

RESIDENTIAL BUILDINGS

DIGITAL SIGNAGE

INDUSTRY

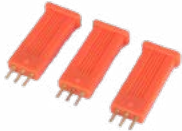


# 06

CATV / HFC  
TRANSMISSION -  
OPTICAL RECEPTION



AC 129 TR



JXP X



JMP -1 / STI-3.5 / TSI-1/9



FA 6AC



MCAL 381 LR



MAA 22



TO 3 1310

## LINE / TELEDISTRIBUTION AMPLIFIERS

### REMOTE-POWERED CATV

102007	AC 129 TR	CATV bidirectional trunk amplifier remotely powered. G: 39dB (85-1006MHz) / -2,5/25dB selectable (5-65MHz). Output level: 129dB $\mu$ V (DIN 45004B / 115dB $\mu$ V 42 channels CENELEC). Working voltage VAC. Connectors PG11. IP64	1
102008	JMP-1	Direct pass for HFC nodes and amplifiers	1
102009	STI-3,5	Signal splitter (-3,5/-3,5dB) for HFC nodes and amplifiers	1
102010	TSI-1/9	Signal TAP (-1/-9dB) for HFC nodes and amplifiers	1
102011	JXP 0	Attenuator 0dB for HFC nodes and amplifiers	10
102012	JXP 2	Attenuator 2dB for HFC nodes and amplifiers	10
102013	JXP 3	Attenuator 3dB for HFC nodes and amplifiers	10
102014	JXP 6	Attenuator 6dB for HFC nodes and amplifiers	10
102015	JXP 9	Attenuator 9dB for HFC nodes and amplifiers	10
102016	JXP 12	Attenuator 12dB for HFC nodes and amplifiers	10
161012	A 11-58	PG11 to 5/8 adapter	1
161011	C 58-11	5/8 connector for cable 10/11mm outdoor diameter	1/20
161013	C 58-15	5/8 connector for cable 15/16mm outdoor diameter	1
161014	A 58-F	5/8 adapter to F connector	1

### REMOTE POWER SUPPLY

102020	FA 6AC	Power supply for AC telefeeding 129 TR. 60 Vac / 6A.	1
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### SELF-POWERED CATV

061007	MCAL 381LR	Micro-broadband / line amplifier 1 input (87 - 1000MHz) and passive return line (5-65MHz). Gain 26 dB (47 MHz) / 32 dB (790 MHz). Output level (DIN 45004B): 114dB $\mu$ V. Class A. Compatible with Ekoax.	10/60
102006	AC 118 R	Line amplifier with passive return path 5-65MHz. Direct frequency: 87-1000MHz. G: 38dB. Output level: (DIN 45004B) 118dB $\mu$ V. TEST: -20DB. Compatible with EKOAX	6/24

## INDOOR AMPLIFIERS

### CATV

111009	MAA 22	Micro indoor amplifier with return path. 1 input (5-65/88-1000 MHz) / 1 output. G: 12-17-22dB. Output level (DIN 45004B): 110 dB $\mu$ V. Compatible with EKOAX	10/60
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## OPTICAL TRANSMITTERS, SPLITTERS AND RECEIVERS

### OPTICAL TRANSMITTERS BASIC SERIE

271017	TO 3 1310	Optical transmitter IN 47-1000 MHz / Out 1310 nm laser DFB. Optical power 3dBm. SC / APC	1
271001	TO 3 FI	Optical transmitter IN 30-2600 MHz / Out 1310 nm laser DFB. Optical power 3dBm. Digital channels. SC/APC	1
271022	TO 10 FI 1550	Optical transmitter IN 30-2600MHz / OUT 1550nm DFB laser. Optical power 10dBm. Digital channels. SC/APC	1

### OPTICAL TRANSMITTERS CM SERIE

274101	CMTO3-1310	Optical transmitter IN 47-1000MHz / OUT 1310nm DFB laser. Optical power 3dBm. SC / APC. Built-in power supply.	1
274100	CMTO3 FI-1310	Optical transmitter IN 30-2600 MHz / OUT 1310 nm, DFB laser. Optical power 3 dBm. SC / APC. Built-in power supply. CM headend compatible	1
274106	CMTO3-1550	Optical transmitter IN 47-1000MHz / OUT 1550nm DFB laser. Optical power 3dBm. SC / APC. Built-in power supply. CM headend compatible	1
274107	CMTO3 FI-1550	Optical transmitter IN 30-2600 MHz / OUT 1550 nm, DFB laser. Optical power 3 dBm. SC / APC. Built-in power supply. CM headend compatible	1
274102	CMTO10 FI-1550	Optical transmitter IN 30-2600 MHz / OUT 1550 nm, DFB laser. Optical power 10 dBm. SC/APC. Built-in power supply. CM headend compatible	1



CM TO 3 FI-1550



CM EDFA 122

### EDFA CM SERIE

274108	CM EDFA 122	1550nm DFB laser optical amplifier. Optical power 22dBm. Built-in power supply.	1
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### RACK FORMAT OPTICAL TRANSMITTERS

271021	TOR 3 GPON	Professional Optical transmitter IN 47-1000MHz / OUT 1550nm DFB laser. Optical power: 3dBm. SC/APC	1
271020	TOR 3 GPON FI	Professional Optical transmitter IN 47-2600MHz / OUT 1550nm DFB laser. Optical power: 3dBm. SC/APC	1



TOR 3 GPON

### RACK FORMAT MULTI-PORT EDFAs

310023	EDFA 812	8-way optical amplifier 1550nm + multiplexer 1490nm and 1310nm. Total optical power: 23dBm. Optical power / port: 12,5dBm	1
310010	EDFA 816	8-way optical amplifier 1550nm + multiplexer 1490nm and 1310nm. Total optical power: 27dBm. Optical power / port: 16,5dBm	1
310011	EDFA 1617	16-way optical amplifier 1550nm + multiplexer 1490nm and 1310nm. Total optical power: 31dBm. Optical power / port: 17dBm	1
310022	EDFA 3219	32-way optical amplifier 1550nm + multiplexer 1490nm and 1310nm. Total optical power: 34dBm. Optical power / port: 19dBm	1



EDFA 816



EDFA 3219

### OPTICAL SPLITTERS CM SERIE

274103	CM RF 2	Optical splitter with 2 outputs. Compatible with CM headend.	1
274104	CM RF 4	Optical splitter with 4 outputs. Compatible with CM headend.	1
274105	CM RF 8	Optical splitter with 8 outputs. Compatible with CM headend.	1

### CM SERIES MOUNTING CHASSIS

080005	CHM TR	Wall-mount support, 6 units (5 modules + 1 power supply)	1
080008	CH 3 TR	Wall-mount support, 3 units (2 modules + 1 power supply)	1
080006	CHR TR	Support for 19" rack, 6 units (5 modules + 1 power supply)	1



CM RF 8



SSCF

SSCF + SCF 8



RO 4 LR



RO 88 AGC



RO 90 FI AGC



ON 129 AC



TO LR XXXX



JMP -1 / STI-3.5 / TSI-1/9



JXP X

### SPLITTERS ÓPTICOS COMPACTOS

366133	SCF 2	Fiber optic PLC modular (cassette) splitter 1x2 with SC/APC connectors	1
366134	SCF 4	Fiber optic PLC modular (cassette) splitter 1x4 with SC/APC connectors	1
366135	SCF 8	Fiber optic PLC modular (cassette) splitter 1x8 with SC/APC connectors	1
366136	SCF 16	Fiber optic PLC modular (cassette) splitter 1x16 with SC APC connectors	1
366137	SCF 32	Fiber optic PLC modular (cassette) splitter 1x32 with SC/APC connectors	1
366138	SSCF	Wall fixing bracket for SCF splitters	1

### HEADEND OPTICAL RECEIVER 5-200 MHZ

275001	RO 4LR	Headend optical receiver for return path. QUAD 1200-1620nm. Optical input power: 0 ...-23dbm. Output: 5-200MHz 120dB $\mu$ V. TEST -20dB	1
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### OPTICAL RECEIVER 1GHZ

270002	RO 88 AGC	Optical receiver FTTH. IN 1260-1620 nm. Optical power 2...-15dBm (AGC 0...-12dBm) / OUT 47-862 MHz. Output level >80 dBuV. SC/APC	1
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### OPTICAL RECEIVER 2,6 GHz

270003	RO 90 FI AGC	Optical receiver FTTH. IN 1260-1620 nm. Optical power 3...-15dBm (AGC 0...-12dBm) / OUT 47-2600 MHz. Output level >80dBuV. SC/APC	1
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### OPTICAL NODES

#### HFC OPTICAL NODES 1GHz DOCSIS 3.0

273002	ON 129 AC	Optical node 87-1002MHz. Ready to plug-in TX 5-65MHz. Output level: 129dB $\mu$ V (DIN 45004B / 114dB $\mu$ V 42 Ch. CENELEC). Working voltage Vac. PG11 connectors. IP64	1
274001	TO LR 1310 FP	Plug-in optical transmitter for ON 129 AC node. Laser 1310nm FP. Optical power 0dBm. Status indicator	1
274002	TO LR 1310 DFB	Plug-in optical transmitter for ON 129 AC node. Laser 1310nm DFB. Optical power 3dBm. Status indicator	1
274003	TO LR 1550 DFB	Plug-in optical transmitter for ON 129 AC node. Laser 1550nm DFB. Optical power 3dBm. Status indicator	1
274005	TO XX CWDM	Plug-in optical transmitter for ON 129 AC node. CWDM laser with wavelength on demand. Optical output power 3dBm. Status indicator	1

#### 1GHz OPTICAL NODE ACCESSORIES

102008	JMP-1	Direct signal pass-through for ON 129 AC	1
102009	STI-3,5	Signal splitter (-3,5/-3,5dB) for ON 129 AC	1
102010	TSI-1/9	Signal TAP (-1/-9dB) for ON 129 AC	1
102011	JXP 0	Attenuator 0dB for ON 129 AC	10
102012	JXP 2	Attenuator 2dB for ON 129 AC	10
102013	JXP 3	Attenuator 3dB for ON 129 AC	10
102014	JXP 6	Attenuator 6dB for ON 129 AC	10
102015	JXP 9	Attenuator 9dB for ON 129 AC	10
102016	JXP 12	Attenuator 12dB for ON 129 AC	10
274004	2FPG11	Adapter for 2 fibers to PG11 for ON 129 AC	1



TDT + SAT

07

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DTT / SAT  
OVER FIBER



TO 4ST



SSCF



SSCF + SCF 8



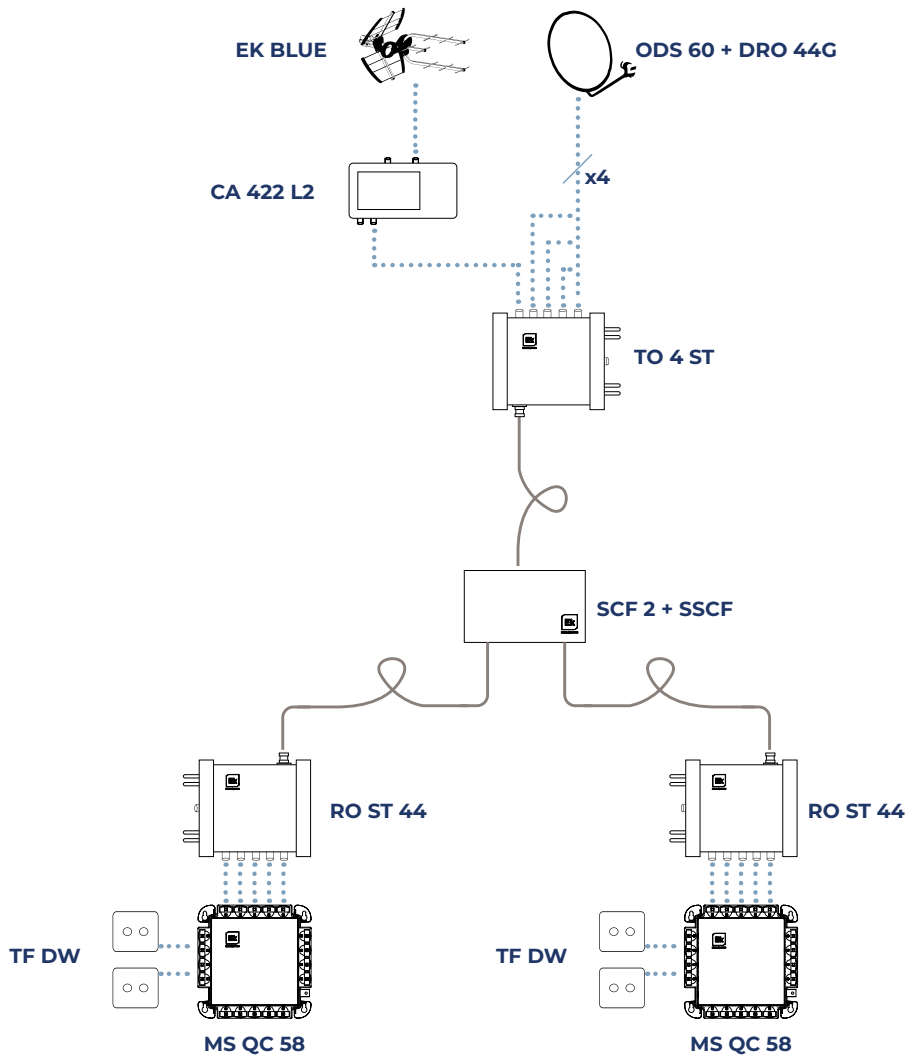
RO ST 44

**TER + SAT (4 POL) IN ONE SINGLE FIBER**

276001	TO 4ST	Optical transmitter for 4 polarities SAT + Terrestrial. 4 FI satellite inputs + 1 input 47-862 MHz. Wavelength: 1510-1570nm. Optical power 3dBm. SC / APC connector. Wall-mounting	1
366133	SCF 2	Fiber optic PLC modular (cassette) splitter 1x2 with SC/APC connectors	1
366134	SCF 4	Fiber optic PLC modular (cassette) splitter 1x4 with SC/APC connectors	1
366135	SCF 8	Fiber optic PLC modular (cassette) splitter 1x8 with SC/APC connectors	1
366136	SCF 16	Fiber optic PLC modular (cassette) splitter 1x16 with SC/APC connectors	1
366137	SCF 32	Fiber optic PLC modular (cassette) splitter 1x4 with SC/APC connectors	1
366138	SSCF	Wall fixing bracket for SCF splitters	1
276003	RO ST 44	Optical receiver for 4 polarities SAT + Terrestrial. 4 outputs HL / HH / VL / VH + 1 output 47-862 MHz. SC / APC fiber connector. Power supply included	1

See available multiswitches on pages 19, 20 y 21

**DISTRIBUTION EXAMPLE OF 4 SAT POLARITIES AND TERRESTRIAL THROUGH 1 FIBER**





# 08

GPON



OLT 8E



OLT 16E



THE BEST  
OPTION FOR  
PROFESSIONALS



SWH-TR



TOR 3 GPON · TOR 3 GPON FI



EDFA 1617



UPS 1000



ONT 4AC

## ELECTRÓNICA DE RED

334200	SWG 24 L2	Ethernet Layer2 Managed Switch . 24 ports x 1Gbps Ethernet + 4 x SFP 1Gbps	1
280070	RGM	Multi-port router (10 x 1Gb)	1

## GPON OLTs / MANAGEMENT SERVER

310008	OLT 8E	GPON headend (OLT). 8 downlink ports and 8 uplink ports (2 x 10GE and 6 x GE). Redundant power supply	1
310009	OLT 16E	GPON headend (OLT). 16 downlink ports and 8 uplink ports (2 x 10GE and 6 x GE). Redundant power supply	1
310025	SFP UP	SFP for Gb uplink Ethernet RJ45	1
310036	SFP 10G UP	SFP for 10G uplink Ethernet RJ45	1
310018	SFP C+	SFP for downlink ports C+ type	1
310035	SFP C++	SFP for downlink ports C++ type	1
310040	SWH-BASIC	Desktop server for GPON configuration and provisioning for hospitality. TR069. Maximum of 40 ONT. Power supply included	1
310041	SWH-MINI	Desktop server for GPON configuration and provisioning for hospitality. CM headend format. TR069. Maximum of 120 ONT.	1
310026	SWH-TR	Rack server for GPON configuration and provisioning for hospitality. TR069	1
311008	EK SOP	Servers remote support and commissioning	1

## OPTICAL TRANSMITTER FOR RF OVERLAY HEADENDS

271021	TOR 3 GPON	Professional Optical transmitter IN 47-1000MHz / OUT 1550nm DFB laser. Optical power: 3dBm. SC/APC	1
271020	TOR 3 GPON FI	Professional Optical transmitter IN 47-2600MHz / OUT 1550nm DFB laser. Optical power: 3dBm. SC/APC	1

## EDFAs GPON PARA RF OVERLAY

310023	EDFA 812	8-way optical amplifier 1550nm + multiplexer 1490nm and 1310nm. Total optical power: 23dBm. Optical power / port: 12,5dBm	1
310010	EDFA 816	8-way optical amplifier 1550nm + multiplexer 1490nm and 1310nm. Total optical power: 27dBm. Optical power / port: 16,5dBm	1
310011	EDFA 1617	16-way optical amplifier 1550nm + multiplexer 1490nm and 1310nm. Total optical power: 31dBm. Optical power / port: 17dBm	1
310022	EDFA 3219	32-way optical amplifier 1550nm + multiplexer 1490nm and 1310nm. Total optical power: 34dBm. Optical power / port: 19dBm	1

## UPS

312004	UPS 1000	1KVA online UPS. 92% AC/AC efficiency. Power factor 0.9. Autonomy 9 minutes. Display and 19" rack format	1
312005	PB UPS	External batteries	1
312006	SNMP UPS	SNMP control board	1

## ONTs

310032	ONT 2W E	GPON network terminal. 1 GE + 1 FE + 2 POTS + WiFi b/g/h 2.4GHz	1
310017	ONT 4 AC	GPON network terminal. 4 GE + 2 POTS + WiFi b/g/h/ac 2.4/5GHz	1

310049	ONT 4 W6	GPON network terminal. 4 GE + 1 POTS + WiFi 6 (3000Mbps)	1
310033	ONT 4 POE	GPON network terminal (ONT) + Wireless router. 4 ports GE with PoE supply 48V (max 60W). SC/ACP	1



ONT 4 POE



ONT 4 W6

### RF OVERLAY OPTICAL RECEIVERS

270004	RO 88 CWD	Active optical receiver 1GHz 1550nm + mux 1490nm/ 1310nm. Input optical power 2...-15dBm (AGC 0...-12dBm). Output level > 80dBμV.	1
270005	RO 68 CWD	Passive optical receiver 1GHz 1550nm + mux 1490nm/ 1310nm. Input optical power 0...-10dBm. Output level: >62dBμV	1
270006	RO 65 FI CWD	Passive optical receiver 2,4 GHz 1550nm + mux 1490nm/ 1310nm. Input optical power 0...-10dBm. Output level >60dBμV	1
270007	RO 90 FI CWD	Active optical receiver 2,4GHz 1550nm + mux 1490nm/ 1310nm. Optical level 2...-15dBm (AGC 0...-12dBm). Output level >80dBμV	1



RO 88 CWD

### INDUSTRIAL ONTs

310037	ONT 4 POE IN	Industrial GPON network terminal. 4 ports GE with 48 Vdc PoE (max 60 W). Maximum working temperature 65° C.	1
310029	ONT IN	Industrial GPON network terminal. 4 ports GE + 2 ports POTS + WiFi b/g/n/ac 2.4/5GHz. 12Vdc power supply via terminals. SMA connectors for WiFi 2.4 / 5GHz antennas. DIN rail fixing.	1
310030	ANT-24	WiFi 2,4GHz antenna for ONT IN.	1
310031	ANT-58	WiFi 5GHz antenna for ONT IN.	1



ONT 4 POE IN

### UPS FOR ONT

312001	UPS 16	UPS for ONTs 16W/h. LiPo batteries	1
312002	UPS 32	UPS for ONTs 32W/h. LiPo batteries	1

### RACKS AND ACCESSORIES \*

\* Consultar gama completa en el catálogo **OPENETICS**

### FIBER TRAYS AND ACCESSORIES FOR 19" RACKS

361012	BF 24 C	24 ports pull-out tray with 24 SC/APC simplex adapters assembled. Antidust cap protectors. 1U	1/5
361013	BF 48 C	48 ports pull-out tray with 24 SC/APC duplex adapters assembled. Antidust cap protectors. 1U	1/5
361018	BF 24 E	24 ports pull-out tray with 24 SC/APC simplex adapters assembled. Fiber identifier. Antidust cap protectors. 1U	1/5
361019	BF 48 E	48 ports pull-out tray with 24 SC/APC duplex adapters assembled. Fiber identifier. Antidust cap protectors. 1U	1/5
363001	A SCAPC S	Simplex SC/APC adapter with mounting flange	25/2000
363004	A SCAPC D	Duplex SC/APC adapter with mounting flange. For replacing on BF 48 C	20/1000
363010	T AD	48 screws bag for SC/APC adapters.	1 Bolsa
363011	TP AD S	Protective cap for front telescopic tray SC connector	1



BF 24 C



Highly stable pull-out tray



EDD 8

### FIBER OPTICS DISTRIBUTION BOX

361037	EDD 8	Distribution box with 8 SC/APC mounted adapters and 12 fusions tray. IP65	1
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CFD 16



RS 24-12



ARS 12



RPG 32



SCF 32



SP FO 16



BOBINA CFOR

## OUTDOOR FTTH BOX

361036	CFD 16	FTTH distribution box, IP65, compatible with SCF splitters. Up to 16 outputs	1
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## DISTRIBUTION BOX

361033	RS 4M <b>E</b>	Fiber distribution box 4 fibers. SC/APC adapters included. It includes support for SP FO splitters	1/30
361032	RS 8-12	Fiber distribution box 8 connectorized / 12 fused fibers. SC/APC adapters not included	1/10
361041	RS 24-12	Fiber distribution box 12 connectorized / 24 fused fibers. SC/APC adapters not included	1/20
361042	ARS 12	12 mounted SC/APC adapters plate for RS 24-12	1/20
396023	RP FO P	2-zone plastic cabinet for 48 SC/APC adapters. 4 trays for up to 48 fusions. 2 doors	1/6

## DISTRIBUTION CABINETS WITH ASSEMBLED SPLITTER

396022	RPG 32	Plastic cabinet two zones. 4 fusion trays. 2 doors. Assembled SCF 32 splitter.	1
396024	RPG 16	Plastic cabinet two zones. 4 fusion trays. 2 doors. Assembled SCF 16 splitter.	1
396025	RPG 8	Plastic cabinet two zones. 4 fusion trays. 2 doors. Assembled SCF 8 splitter.	1

## OPTICAL COMPACT SPLITTERS

366133	SCF 2	Fiber optic PLC modular (cassette) splitter 1x2 with SC/APC connectors. 1U in BSCF rack	1
366134	SCF 4	Fiber optic PLC modular (cassette) splitter 1x4 with SC/APC connectors. 1U in BSCF rack	1
366135	SCF 8	Fiber optic PLC modular (cassette) splitter 1x8 with SC/APC connectors. 1U in BSCF rack	1
366136	SCF 16	Fiber optic PLC modular (cassette) splitter 1x16 with SC/APC connectors. 2U in BSCF rack	1
366137	SCF 32	Fiber optic PLC modular (cassette) splitter 1x32 with SC/APC connectors. 4U in BSCF rack	1
366139	BSCFR	Rack for mounting SCF splitters in 19" rack	1
366138	SSCF	Wall fixing bracket for SCF splitters	1

## PLC SPLITTERS

366102	SP FO 2	Fiber optic PLC splitter 1x2 with SC/APC connectors	1/100
366104	SP FO 4	Fiber optic PLC splitter 1x4 with SC/APC connectors	1/100
366108	SP FO 8	Fiber optic PLC splitter 1x8 with SC/APC connectors	1/100
366116	SP FO 16	Fiber optic PLC splitter 1x16 with SC/APC connectors	1/100
366132	SP FO 32	Fiber optic PLC splitter 1x32 with SC/APC connectors	1/100

## FIBER CABLE

360025	CFOR 2 900-D	2 fibers cable single-mode 900um G657-A2 LSZH CPR Dca white. <b>500m reel</b> compatible with Ek ROLLER	1/36/72
360026	CFOR 2 900N	2 single-mode 900um fibers cable G657-A2 BLACK FR-LSZH-UV for outdoor installations. <b>500m reel</b> compatible with Ek ROLLER	1/36/72
360010	CFO 12 900-D	12 tight-buffered fibers cable single-mode 900um G657-A2 LSZH CPR Dca. Packed by meter	m
360011	CFO 24 900-D	24 tight-buffered fibers cable single-mode 900um G657-A2 LSZH CPR Dca. Packed by meter	m
360012	CFO 48 900-D	48 tight-buffered fibers cable single-mode 900um G657-A2 LSZH CPR Dca. Packed by meter	m

360023	CFO 24 ARM	24 fibers PSP armored Cable. 2 loose tubes with 12 fibers. 250D. SM G652D. Black PE outer jacket	1
360024	CFO 48 ARM	48 fibers PSP armored Cable. 4 loose tubes with 12 fibers. 250D. SM G652D. Black PE outer jacket	1
360007	CFC	Fiber cutting service	1
360015	CPF	Big reel for fiber optical cable	1
360020	CPF 2	Small reel for fiber optical cable	1

### FIBER PATCHCORDS WITH FLEXIBLE CONNECTORS EK ROLLER +

361126	PCR 12 FEK	3mm G657-A2 patch cord with flexible SC/APC connectors. Length 12 m. With traction system at one end.	1/16
361127	PCR 18 FEK	3mm G657-A2 patch cord with flexible SC/APC connectors. Length 18 m. With traction system at one end.	1/16
361128	PCR 24 FEK	3mm G657-A2 patch cord with flexible SC/APC connectors. Length 24 m. With traction system at one end.	1/16

### 900 UM FIBER PIGTAILS

362021	PT 150	0,9mm pigtail fiber SC/APC connector. Length 1.5m	25
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### PATCH CORDS

362002	PC SA 25	3mm patch cord fiber with SC/APC connectors. Length 25 cm	1/250
362001	PC SA 100	3mm patch cord fiber with SC/APC connectors. Length 1 m	1/250
362005	PC SA-200F	3mm patch cord fiber with flexible SC/APC connectors. Length 2 m	1/250
362003	PC SA-P 25	3mm hybrid patch cord with SC/APC and SC/PC connectors. Length 25 cm	1/250
362004	PC SA-P200	3mm hybrid patch cord with SC/APC and SC/PC connectors. Length 2m	1/250

### FIBER TERMINAL BOX AND ADAPTORS

361101	RT FO	Empty optical fiber terminal rosette box. SC/APC adapters not included. Fits standard single back boxes	1/25
363001	A SCAPC S	Simplex SC/APC adapter with mounting flange	50/2000
363002	A SCAPC S W	Simplex SC/APC adapter without mounting flange for SC KJ	50/2000
363003	A SCAPC AD	Simplex SC/APC adapter with anti dust cap	25/2000
363011	TP AD S	Protective cap for unused hole (single adapter case) in RT FO	100
366001	PFF 45	45mm heat shrinkable protetors for fusions. 50 units bag.	1

### FIBER CONNECTOR

363021	CM SA	Mechanical SC/APC connector for fiber	10/100
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### TOOLS

364002	H TJ	Scissors for optical fiber	1
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CPR  
Dca

CFO 24 ARM

PCR 12 FEK  
PCR 18 FEK  
PCR 24 FEK

PT 150



PC SA-200F



RT FO



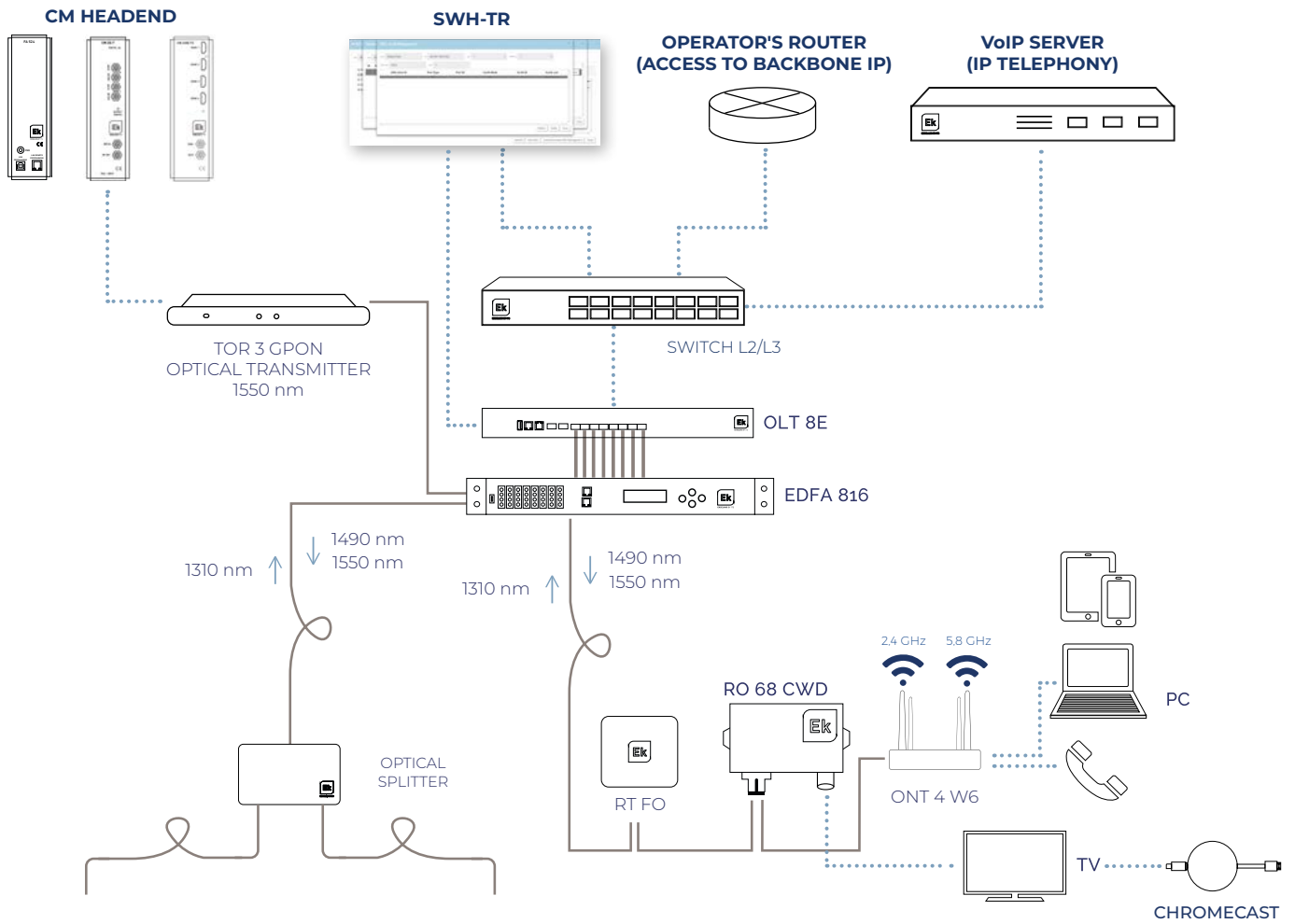
A SCAPC S



A SCAPC AD

# GPON byEk

## GPON BY EK: FTTH / FTTR FIBER OPTIC NETWORKS SOLUTION



For more information, check out our thematic magazine **GPON by EK**





# 09

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SIGNAL METERS



METEK HDD

## METEK HDD

240003	METEK HDD	Professional field meter for DVB-T/T2 - S/S2 -C. Dolby DD+	1
241006	C MTK	METEK calibration service	1
165011	AFF HQ	High-Precision F Female to F Female Adapter	25
240009	FA MK	Replacement power supply for METEK meters	1
241004	BLMK	Replacement carrying bag	1
241005	CNMK	Replacement strap	1

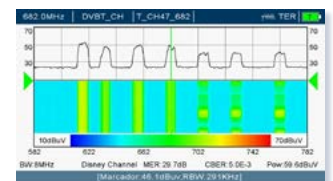


NOW WITH  
DATALOGGER  
INCLUDED\*

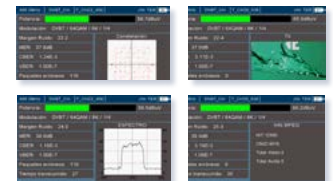
\* Free update for Ek clients



Main menu



**Spectrogram.** Identification of the evolution of signals



Various modes of display combination

- DVB-S2/S, DVB-T2/T, DVB-C Demodulation and analysis
- High-resolution 7-inch TFT-LCD screen
- High quality DSP Spectrum from 50-2200MHz with 50dB of onscreen dynamic range
- Supports HEVC(H.265), H.264 and MPEG2 decoding, SD & HD
- Single F Male connector input featuring a fully automatic attenuator with channel power of up to 120dBµV in 5dB steps
- Measures Channel power, Noise margin, MER, CBER, VBER, TS Errors, Constellation
- RF power supply from 5 to 24V, in 1V steps
- Supports Dseqc 2.0, SATCR and DCSS
- Special spectrum modes (Max Hold, Spectrogram) for interference detection and LTE Measuring
- Efficient and user friendly User Interface
- Full TS recording to external USB drive
- Standard 6h battery life per charge
- Supports automatic adjustment of screen brightness
- Supports spectrum + TV decoding, and spectrum + MPEG information simultaneously
- Standby mode for instant power on
- Multi-function wheel navigation
- Screen capture to external USB drive with a dedicated button
- SAT support, TP update separately via USB or FTP (WiFi)
- Firmware updates through USB or FTP (WiFi)
- EAC3 Dolby DD + codec
- Includes a second transport belt
- USB memory for capture storage



# 10

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EKOAX AND GIGAEKOAX  
INTERNET OVER COAXIAL



IPC-BMH



IPC M300



IPC-M2



IPC-B MINI



MI RP



MI RP IEC



KIT IP



KIT IP-W

**GIGAekoax**



GIGABOX

**EKOAX (INTERNET OVER COAXIAL)**

**SINGLE MASTER HOME SOLUTION**

250015	IPC-BMH	Plug&play mini-master module for WiFi and IPTV extension in homes. Transmission frequency 7.5 to 65MHz. Output level 115dBμV. 12Vdc plug-in power supply included. Maximum connection 6 x IPC-S / IPC-S2 /IPC-S3	1/80
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**MASTER PROFESSIONAL SOLUTION**

250003	IPC-M2 <b>E</b>	Headend module for EKOAX system. Transmission of IP data over coaxial cable. 1 Gbps-HDTV. RF mix. Transmission frequency of IP data: 7,5 - 65 MHz. Output level: 120 dBuV. Working voltage: 12 Vdc. Power supply included	1
132001	MI RP	Mix-demix 5-65 MHz / 85-2150 MHz	10/100

**USER UNIT**

250013	IPC-B MINI	EKOAX slave module for coaxial data reception. RF in. 1 LAN port	1/80
250024	IPC-S3	EKOAX slave module for coaxial data reception. RF in/out. WiFi b/g/n 2.4 GHz, 4 LAN ports. 2 antennas. 300Mbps	1/60
132002	MI RP IEC	Mixer/demixer for EKOAX compatible with TV sockets: TV (85-1000 MHz) / DATA (5-65 MHz). Insertion loss: 1dB (TV) / 0.5dB (DATA)	10/100

**IPTV EXTENDER KIT**

250022	KIT IP	Kit for IPTV extension over coaxial	1
250023	KIT IP-W	Kit for IPTV and WiFi extension over coaxial	1
250025	KIT IP AC	Kit for IPTV and WiFi AC extension over coaxial	1

**EKOAX PLUS**

250019	IPC M300	EKOAX PLUS master module for coaxial data transmission. RF mix Frequency: 7.5 - 65 MHz. Output level: 115 dBuV. Self-powered 230VAC	1
250020	IPC 24	EKOAX PLUS slave module for coaxial data reception. RF in / out. WiFi b/ g/n 2.4 GHz, 4 LAN ports. 2 antennas. 300 Mbps	1/20
250021	IPC AC	EKOAX PLUS slave module for coaxial data reception. RF in / out. WiFi b/g/n/AC 2.4/5 GHz, 4 LAN ports. 2 antennas. 300 Mbps (2,4 GHz) / 800 Mbps (5 GHz)	1/20
311008	EK SOP	Servers remote support and commissioning	1

**GIGAekoax**

250026	GIGABOX	Intelligent master/slave module for coaxial data reception. RF in/out. Maximum 16 devices. Transmission frequency. 5-100MHz. 1 Gigabit port	1/20
132003	MI RP GB	Mixer/demixer for GIGAekoax: TV (120-2150 MHz) / DATA (5-100 MHz). Insertion loss: 1dB (TV) / 0.5dB (DATA)	1/10/100

## EKOAX INTERNET OVER COAXIAL CABLE Plus

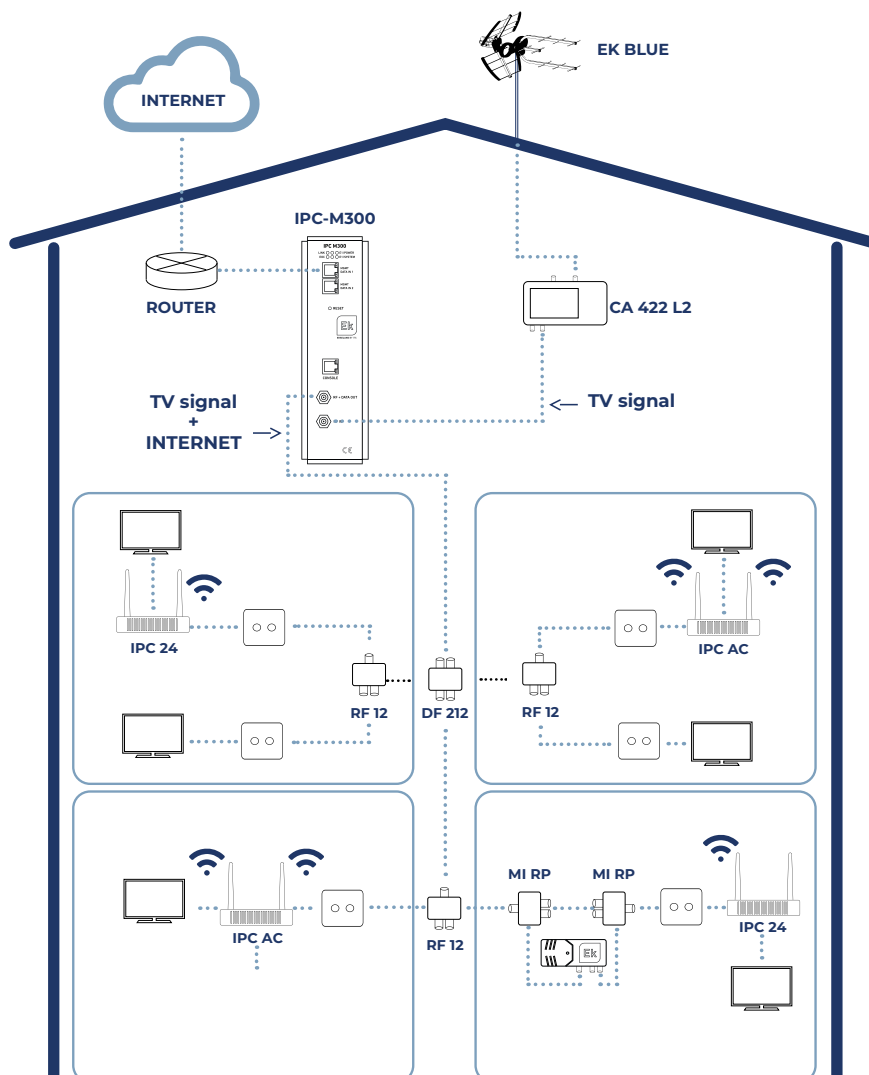
The EKOAX PLUS system from Ekselans by ITS have been specially designed to convert the coaxial network into a data EKOAX PLUS equipment allows to transmit and receive the internet signal through the existing coaxial cable of a television installation, without the need to intervene on the infrastructure.

Simply by adding a master head unit (IPC-M2 / IPC-M300) and a user equipment (IPC-S2 / IPC24 / IPCAC) at each point to which the internet signal is to be carried, the television installation can be updated to transmit IP data with high speed. The user device also acts as a WiFi router so you can create a wireless network easily and with quality wherever the IPC S2 / 24 / AC comes installed.

A single master device allows managing up to 253 user equipment with encrypted communications with each of them. It is also possible to increase the number of user devices using the same network, simply by installing new master equipment in parallel.

## GIGA EKOAX THE EVOLUTION FOR 1 Gbps COMMUNICATION OVER COAXIAL CABLE

GIGA EKOAX is the new technology that allows very high-speed transmission through coaxial cables. The Gigabox equipment is a smart device that can be installed as a primary or secondary device, detecting automatically what is its function in the installation. With a maximum of 16 devices per installation (1 primary + 15 secondary), Gigabox performs in the 5 to 100 MHz frequency band for true maximum connection of 1 Gbps.



# WiFi NETWORK APPLICATIONS



# WiFi RANGE PRODUCTS



WiFi ACCESS POINTS SYSTEM



EK CLOUD



CLOUDPRO



MOBILE APPS



CONTROLLERS



SWITCHES



HOTSPOT



LAN CABLES & ACCESSORIES

A hand is shown pointing upwards towards a glowing white Wi-Fi symbol. The background is a light blue-grey color with a faint, white network diagram consisting of interconnected nodes and lines. The entire scene is framed by a white border.

# 11

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WiFi, SWITCHES,  
4G ROUTERS AND  
LAN CABLES

# AX

## WiFi SERIES



AX 3000



AX 3000P



AX 3000 OLP



UC-AX



SWG 24-AX



For more information, check out our thematic magazine **AX RANGE**

### WiFi ACCESS POINTS SYSTEM

#### CEILING ACCESS POINTS

331019	AX 3000 N	Indoor WiFi Access Point WiFi6 (802.11ax) 3000Mbps 1G PoE IN port + 1G/2.5G SFP uplink port PoE IN 48Vdc./ DC-IN	1
331026	AX 8800 N	WiFi 6 Access Point (IEEE 802.11AX). Four dual-band radios 8642 Mbps. 5GE POE input port + 2.5GE SFP uplink port. POE 48 Vdc IEEE 802.3bt/at/af and DC-IN 54 Vdc. 10 spatial streams. Compatible with CloudPro and apps.	1

#### WALL ACCESS POINTS

331020	AX 3000P N	Indoor wall-mount WiFi Access Point WiFi6 (802.11ax) 3000Mbps 1GE PoE IN port + 4GE ports (1 PoE OUT) 1 Console Port. PoE IN 48Vdc./ DC-IN	1
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#### OUTDOOR ACCESS POINT

331021	AX 3000 OLP N	Outdoor WiFi Access Point. WiFi6 (802.11ax) 3000Mbps. 1G PoE IN port + 1G/2.5G SFP uplink port. 1 Console Port. PoE IN 48Vdc./ DC-IN	1
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#### CONTROLLER

331022	UC-AX N	High-performance controller for WiFi networks. Supports up to 32 AX access points (64 for the AX 3000P model).	1
331023	UC AX L16 N	Expansion pack 16 AX licenses (32 for the AX 3000P model).	
331024	UC AX L32 N	Expansion pack 32 AX licenses (64 for the AX 3000P model).	
331025	UC AX L128 N	Expansion pack 128 AX licenses (256 for the AX 3000P model).	

#### SWITCH POE

334201	SWG 24-AX N	24-port GE PoE+ managed switch with 4 SFP ports	1
331027	SW10G 48-AXL3 N	Managed switch 48 ports 10/100/1000. 4 SFP 10GE ports. POE+ up to 405W. Compatible with CloudPro and apps.	1

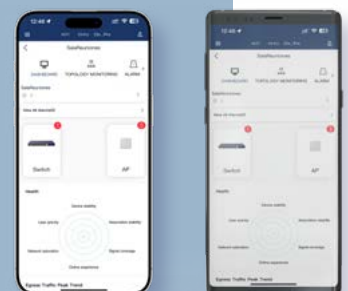
## AX WiFi SERIES



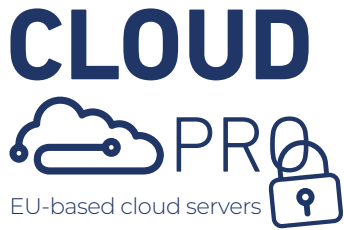
## NEW PROFESSIONAL RANGE OF WiFi ACCESS POINTS

### MOBILE APPLICATIONS

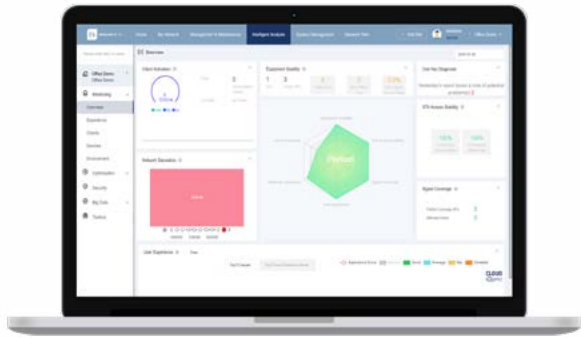
Unified Cloud-Based  
WiFi Network  
Management Platform



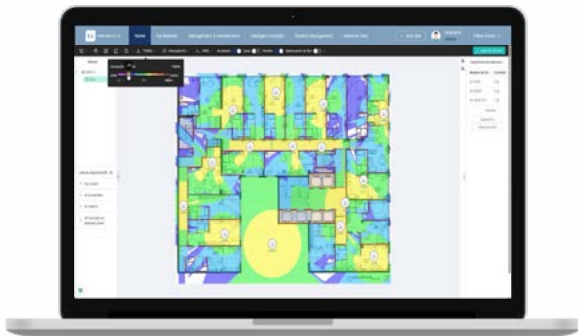




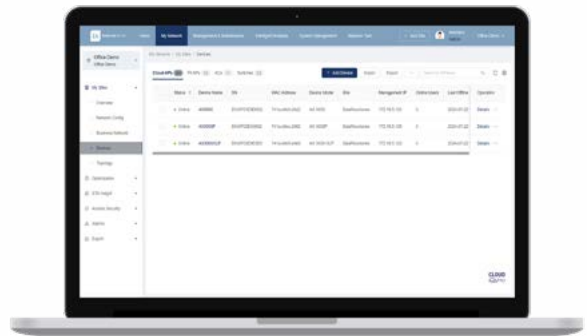
**UNIFIED CLOUD-BASED WIFI NETWORK MANAGEMENT PLATFORM**  
 For more information:  
<https://ek.plus/>



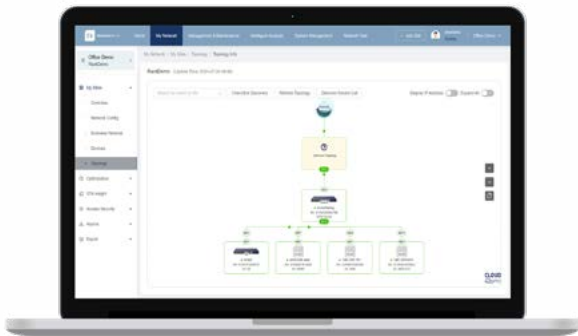
Enables the design, deployment, configuration, operation, and real-time analysis of WiFi networks



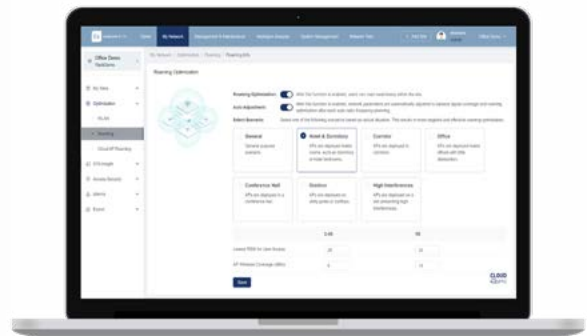
Includes a WiFi network design and planning tool (site survey and heat maps)



Remote execution of monitoring and diagnostic tasks for device connection status, configuration deployment, firmware updates, equipment reboots, and more



Automatic network provisioning option with auto-identification of the network topology



Network optimization and smart roaming between devices



For more information, check out our thematic magazine **AX WiFi SERIES RANGE**

TR  
WiFi

WiFi 6



TR 300W6

WiFi 6



TR 3000W6 OLP



UC MINI



UC TRB



POE 48



ODU LTE 4G

## INDOOR ACCESS POINTS - PROFESSIONAL SERIES TR HIGH CONCURRENCY

331001	TR 2200 E	Access Point 2T2R, 27dBm 2,4GHz/5 GHz. 2200Mbps (400+900+900), WiFi 802.11 b/g/n/ac Wave 2, PoE 48V. 2 ports 10/100/1000Mbps . High density	1
331017	TR 3000W6	WiFi 6 2,4/5GHz access point. 3000Mbps (600+2400Mbps), 24dBm, WiFi 802.11 b/g/n/ac/ax 2 GE ports , PoE 48V. Wave2. High density	1/10

## INDOOR ACCESS POINTS - PROFESSIONAL TR SERIES

331006	TR 750	Access Point 2T2R, 27dBm 2,4GHz/5 GHz. 750Mbps, WiFi 802.11 b/g/n/ac Wave 2, PoE 48V. 2 RJ45 ports.	1
331007	TR 1200	Access Point 2T2R, 2,4GHz/5 GHz. 1200Mbps, 30dBm, WiFi 802.11 b/g/n/ac Wave 2, PoE 48V. 2 RJ45 ports.	1

## OMNIDIRECTIONAL OUTDOOR ACCESS POINTS - PROFESSIONAL TR SERIES

331008	TR 1200 OLP	Omnidirectional outdoor access point, 27 dBm, 1200Mbps, WiFi 802.11 b/g/n/ac 2,4 / 5 GHz.. 2 ports 10/100/1000Mbps. PoE 48Vdc.	1/10
331018	TR 3000W6 OLP	Omnidirectional outdoor access point. 27dBm, 2 10/100/1000 ports, 3000Mbps. WiFi 6 2,4/5GHz. PoE 48Vdc	1/10

## LAN CONTROLLER - PROFESSIONAL TR SERIES

-	CSW	PC software for TR series control and provisioning. Offline version. Available at <a href="http://www.ek.plus/software">www.ek.plus/software</a>	-
331009	UC MINI	Desktop format control and provisioning unit. Power supply from PC or included. Maximum 50 access points	1
331002	UC TRB	Desktop format control and provisioning unit. Power supply included. Maximum 300 access points	1
331003	UC TR	Control and provisioning unit compatible with CM modular headend. Maximum 300 access points	1
331010	UC RACK	19" rack format control and provisioning unit. Maximum 300 access points	1

## INDOOR ACCESS POINTS - AP SERIES

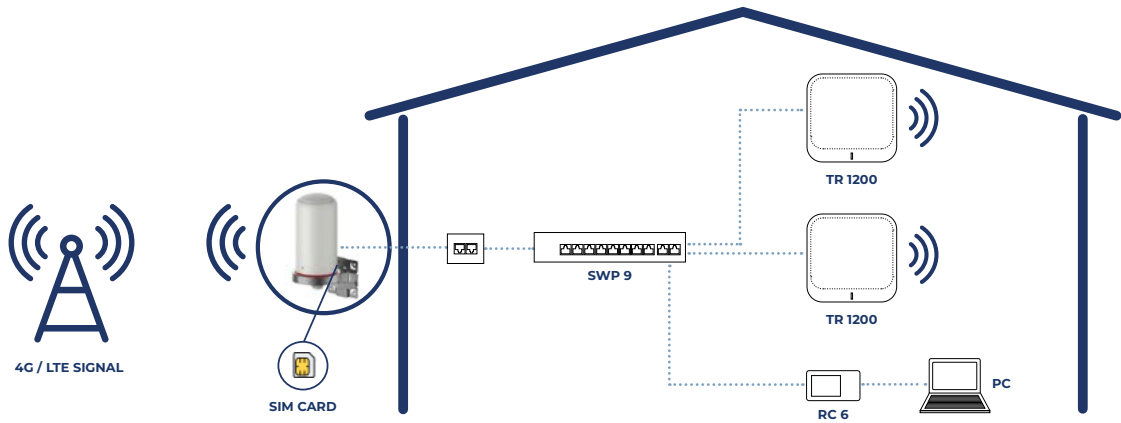
330004	AP 300 LP	Access Point 2T2R, 2,4GHz, 23dBm. 300Mbps, WiFi 802.11 b/g/n, PoE 24V, 1 port RJ45, power injector included	1/20
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## POE INJECTORS

332001	POE 24	PoE injector 24Vdc/1A. 10/100 Mbps	1/100
332002	POE 48	PoE injector 48Vdc/0,5A. 100/100/1000 Mbps	1/90

## OUTDOOR 4G ROUTER - ODU

333014	ODU LTE 4G	4G LTE Cat 16 omnidirectional outdoor router with support included. TDD DownLink 700Mbps UpLink 30Mbps. FDD DownLink 900Mbps UpLink 150Mbps. PoE in:19V/1,26A included.	1/48
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**SWITCHES**

**MANAGED SWITCH**

334200	SWG 24 L2	Ethernet Layer2+ Managed Switch. 24 ports x 1Gbps Ethernet + 4 x SFP 1Gbps	1/5
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**PoE SWITCHES**

334001	SWP 5	Switch PoE 4 ports. 4x10/100/1000Mbps. PoE IEEE802.3af/at. 1 uplink port 10/100/1000 Mbps, 1 uplink port SFP. 96W	1/10
334002	SWP 9	Switch PoE 8 ports. 8x10/100/1000Mbps PoE IEEE802.3af/at. 2 uplink ports 10/100/1000 Mbps. 120W	1/10
334003	SWP 26	Switch PoE 24 ports. 24x10/100/1000Mbps. PoE IEEE802.3af/at. 2 uplink port 10/100/1000 Mbps, 2 uplink port SFP.	10

**SWITCHES GIGABIT**

334100	SW5 BP	Switch Ethernet 5 ports. 10 /100/1000. Plastic housing	1/50
334101	SW8 M	Switch Ethernet 8 ports. 10 /100/1000. Metal housing	1/50
334102	SW24 M	Switch Ethernet 24 ports. 10 /100/1000. 19" Rack	1/5

**LAN CABLE**

**LAN CABLE CAT6 EK ROLLER**

390018	CLUR 6 CUD <b>E</b>	LAN cable Cat6 U/UTP CU white LSZH CPR Dca. <b>305m wooden drum</b> for EK ROLLER	1/36/72
390026	CLUR 6 CUD/500 <b>E</b>	LAN cable Cat6 U/UTP CU white LSZH CPR Dca. <b>500m wooden drum</b> for EK ROLLER	1/36/72
390022	CLUR 6 CUB <b>E</b>	LAN Cable Cat6 U/UTP CU white LZSH CPR B2ca. <b>305m wooden drum</b> for EK ROLLER	1/36/72
390017	CLUR 6 CCA	LAN Cable Cat6 U/UTP CCA CPR Eca. <b>305m wooden drum</b> for EK ROLLER	1/36/72
390016	CLUR 6 CCA-100	LAN Cable Cat6 U/UTP CCA CPR Eca. <b>100 m reel</b> for EK ROLLER	1/72/144

**LAN CABLE CAT6A EK ROLLER**

390024	CLUR 6AB	LAN Cable Cat6A U/UTP CU white LZSH CPR B2ca. <b>305m wooden drum</b> for EK ROLLER	1/36/72
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MANAGEABLE L2+

SWG 24 L2

SWP 5

SWP 26

SW5 BP

SW8 M

Ek ROLLER

CLUR 6 CUD

## TR PROFESSIONAL SERIES CONTROLLERS

UC-XX controllers, available in different models and modes, offer simple, efficient, secure and centralized control of the professional TR range WiFi access points infrastructure. Suitable for any type of installation and client, makes maintenance tasks easy for IT personnel.

### ONLINE



Windows based free PC software available in offline mode. Take control of the WiFi installation without additional costs.

### REAL TIME NETWORK STATUS ALERTS

The screenshot shows the UC-TR interface with a top navigation bar and a main dashboard. The dashboard includes four status indicators: 0 Connected Clients, 5 Devices Not Configured, 11 Online devices, and 0 Offline devices. Below these indicators is a table of access points.

Nombre AP	MAC 0	IP Address 0	Model 0	FW 0	Dev 0	Template 0	Grupo 0	Acciones
AP 01	74-1A-E3-E3-4F-C3	172.16.50.192	AP-TR-1300	V1.7.7	0		Zonas Comunes	[Icons]
AP 02	74-1A-E3-E3-08-97	172.16.50.193	AP-TR-2200	V1.7.7	0	22200	Zonas Comunes	[Icons]
AP 03	74-1A-E3-E3-08-A6	172.16.50.181	AP-TR-2200	V1.7.7	0	22200	Zonas Comunes	[Icons]
AP 04	74-1A-E3-E3-00-54	172.16.50.178	AP-TR-2200	V1.7.7	0	22200	Zonas Comunes	[Icons]
AP 05	74-1A-E3-E3-16-37	172.16.50.206	AP-TR-250	V1.11	0	WiFi	Zonas Comunes	[Icons]
AP 06	74-1A-E3-E3-50-D8	172.16.50.191	AP-TR-1300	V1.7.7	0		Zonas Comunes	[Icons]
Sala 01	74-1A-E3-E3-50-B8	172.16.50.182	AP-TR-1300	V1.7.7	0	51500	Oficinas	[Icons]
Sala 02	74-1A-E3-E3-0C-19	172.16.50.203	AP-TR-2200	V1.7.7	0		Oficinas	[Icons]
Sala 03	74-1A-E3-E3-4F-C7	172.16.50.204	AP-TR-1300	V1.7.7	0	51800	Oficinas	[Icons]

- ✓ Intuitive and complete system supervising
- ✓ Create device groups
- ✓ Template creation
- ✓ Bulk configuration of the WiFi access points
- ✓ Global firmware upgrade
- ✓ Real-time monitoring
- ✓ Alerts

### TR ACCESS POINTS VISUAL MANAGEMENT AND CONFIGURATION

## EK CLOUD



Nombre del dispositivo	Tipo 0	Número de serie 0	Acciones
Hotel 1	UC MINI	EK-UCTR1000000004	[Icons]
Hotel 2	UC MINI	EK-UCTR1000000006	[Icons]
Hotel 3	UC MINI	EK-UCTR1000000005	[Icons]
Hotel 4	UC MINI	EK-UCTR1000000008	[Icons]
Hotel 5	UC MINI	EK-UCTR1000000007	[Icons]
LAB Ek	VM	EK-UCTR1000000099	[Icons]

- ✓ Remote management of the installation without opening ports on the router
- ✓ Control of multiple installations with a single user account
- ✓ Own cloud server under Ek control
- ✓ Compatible with all models of Ek Online controller
- ✓ Simple and intuitive management interface
- ✓ No added costs

**3 YEARS FREE ACCESS\***

\*For online controllers



# 12

HOTSPOT



HS BASIC



CM HS



HS RACK

## HOTSPOT by EK

280025	HS BASIC	Professional Hotspot with captive portal + network audit. Up to 50 simultaneous users. Power supply included	1
280024	CM HS	Professional Hotspot with captive portal + network audit. Compatible with CM Headend	1
390011	HS RACK	Professional Hotspot with captive portal + network audit. 19" rack format.	1
390021	HS RACK +	Professional Hotspot with captive portal + network audit. 19" rack format. For up to 2000 simultaneous users	1
280058	IPMS	Graphical configuration interface for PMS connection via Char	1
311008	EK SOP	Servers remote support and commissioning	1

## PROFESSIONAL CAPTIVE PORTAL AND WIFI NETWORK AUDIT

The professional Ekselans by ITS HotSpot has been designed for installation in business and hotel environments, as well as in any public WiFi network where user authentication and activity registration are required.

Through a simple configuration, the installer is able to define all the necessary parameters to offer various methods of accreditation in WiFi networks (direct registration, email with verification check, tickets with pre-defined passwords, social networks, ...). Likewise, the system allows to define user profiles for assignment of times and connection speed.

In addition to the captive portal, the HotSpot by EK offers a powerful network audit system that allows analyzing internet consumption statistics by connection and user, as well as registering and storing the activity of the different users connected to the WiFi network (device identification, visited domains, connection times, ...), all in strict compliance with the new regulation

### Captive portal

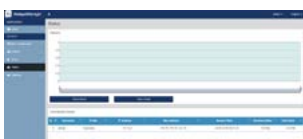
- Simple configuration of the welcome page
- Various access systems: direct registration, tickets with personalized passwords, social networks (Facebook)
- Possibility of defining fields for the access form (name, nationality, room, email, ...)
- Access functionality with email verification system
- Definition of bandwidth and maximum connection time per session
- Creation of websites whitelists
- Possibility of connection to ticket printer for passwords

### Network audit and activity registration

- Activity log of users connected to the WiFi network
- Internal storage of important information such as devices MAC addresses, visited domains, connection times to each domain,...
- Usage statistics of internet resources per user
- Possibility of defining an external cloud back-up (Dropbox, Google Drive, ...)

### Integration with PMS

- HotSpot integration option with the hotel's PMS through the CHAR system





# 13

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SENSORS, IoT



**LoRa sensors for the SONDEK solution**

420001	HRD	LoRa gateway - central IOT node for receiving data from MPD	1
422000	MPD	LoRa sensor node with connector for external probes. Temperature, humidity and atmospheric pressure sensor included.	1
421000	STH	Modular temperature and humidity probe. Includes 1.5m connection cable	1
421003	SCO2	Modular carbon dioxide (CO2) probe. CO2+Temp+Humid+Pressure. Includes 1.5m connection cable.	1
421004	SCO	Modular carbon monoxide (CO) probe. Includes 1.5m connection cable	1
421005	SO2	Modular oxygen (O2) probe. O2+Temp+Pressure. Includes 1.5m connection cable.	1
421006	STC	Modular contact temperature probe. Includes 1.5m connection cable	1
421007	CPS	Protective cover for Sondek outdoor installation	1
422001	CPM	Doors / windows contact	1
420002	MRL	LoRa repeater module	1

\* The battery life will vary depending on the added modular sensors.

# SONDEK

NODO IoT

**SONDEK:** Professional Sensor System for Residential, Industrial, and Tourist Environments.

SONDEK allows for the creation of a technological infrastructure within a building, regardless of its intended purpose, to monitor various environmental and consumption parameters with the aim of improving habitability, energy efficiency, and the well-being of the environment.

**SONDEK** system is composed of various detectors designed to capture and measure a wide range of environmental

parameters: carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxygen (O<sub>2</sub>), temperature, humidity, and atmospheric pressure. Its main function is to collect precise information on these variables and transmit them in real-time using LoRa® technology to different modular nodes (MPDs), which in turn communicate with a central gateway (HDR - IoT Node). It is this IoT Node that securely stores all environmental factors for data analysis, allowing for the identification of patterns and the implementation of preventive or corrective measures, even automatically.

**SONDEK** sensors are designed for easy installation and offer advantages such as automatic linking with the modular node and a self-configuration procedure for measurement transmission cycles. The IoT Node (HDR) stores data locally in real-time, with the option of communication with a cloud system. Additionally, it provides access to city infrastructures (Smart Cities) that have implemented building metadata analysis.

### APPLICATION ENVIRONMENTS



### ADVANTAGES OF SONDEK SENSORS

- ✓ LoRa® Technology
- ✓ Low power consumption
- ✓ Long battery life (between 5 and 8 years)
- ✓ High tolerance to interference
- ✓ High reception sensitivity (-136dBm)
- ✓ Long range (up to 20 km maximum)



**WiFi TEMPERATURE CONTROLLERS SONDEK**

428000	CP 100W	Temperature controller display with WiFi for cooling/heating systems. Includes 1 probe and 1 relay	1/50
428001	CP 200W	Temperature controller display with WiFi for cooling/heating systems. Includes 2 probe and 3 relays	1/50



**CP 200W**

# SONDEK THERM

SONDEK THERM WiFi controllers have been specially designed to monitor and manage all types of industrial refrigeration and freezing equipment.

Temperature control systems have a wide range of applications and play a crucial role in various sectors, ensuring the optimal operation of their activities and production processes. These sectors include the food industry, pharmaceuticals, as well as the chemical and petrochemical industries. In each of these, the adaptation of equipment to specific needs is crucial, with refrigeration and/or freezing cycles that cater to each

requirement while optimizing energy consumption and minimizing environmental impact.

SONDEK THERM consists of two compact panel controllers that fit into the standard slots (2.8 cm in height by 7.0 cm in width) of any refrigerator model: shelves, counters, display cases and refrigeration islands, wall and semi-wall showcases, cabinets, and freezing rooms, and even electrical panels.



**CP 100W:**

Basic model with 1 sensor and 1 relay



**CP 200W:**

High-capacity model with 2 sensors and 3 relays, ideal for situations that require a high capacity for load switching

**APPLICATION ENVIRONMENTS**



SUPERMARKETS AND HYPERMARKETS



HOTELS



RESTAURANTS



HOSPITALS



PHARMACEUTICAL INDUSTRY



REFRIGERATED TRANSPORT



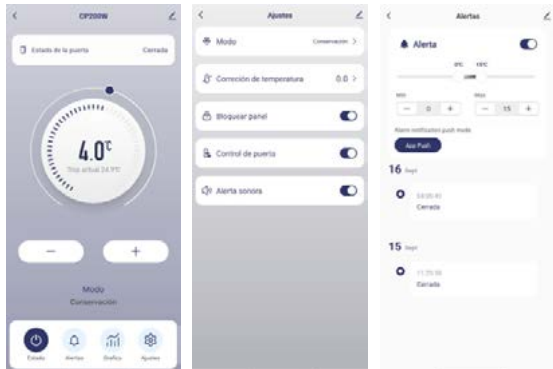
FOOD & BEVERAGE INDUSTRY



CHEMICAL INDUSTRY



Download Ek SMART



## SENSORES DE CO2 Y CO SONDEK

421001	WS CO2 EK N	CO2 Sensor (smoke detector). Operates in standalone mode or via WiFi with management through the "EK Smart" app. Includes batteries.	1
421002	WS HI EK N	CO (carbon monoxide) sensor. Operates in standalone mode or via WiFi with management through the "EK Smart" app. Includes batteries.	1



WS CO2 EK



WS HI EK

## APPLICATION ENVIRONMENTS



RESIDENTIAL



SUPERMARKETS



HOTELS



RESTAURANTS



HOSPITALS

## FEATURES OF THE CO2 AND CO SENSORS SONDEK

- √ Real-time alert notifications via the EkSmart app
- √ Standalone operation
- √ Easy installation without wiring
- √ High precision and reliability

# SONDEK

## DETECTORS

The **SONDEK DETECTORS** family consists of advanced environmental sensors designed to detect critical threats such as carbon monoxide (CO) and carbon dioxide (CO2).

The **WS CO2 EK** model uses photoelectric technology and self-verification to detect smoke (carbon dioxide).

The **WS HI EK** features a high-precision electrochemical sensor, complemented with temperature compensation technology, for reliable carbon monoxide detection.

Both devices operate with long-lasting batteries (approximately 5 years), require no wiring, and function autonomously or connected to the WiFi network for remote access via the EkSmart mobile app.

Complying with EN14604 and EN50291 certifications, they guarantee the highest quality, reliability, and safety.

A man wearing a blue cap, glasses, and a blue quilted vest is interacting with a video door entry system mounted on a wooden door. The system features a camera lens, a small display screen, and a numeric keypad. The man is looking at the device and has his hand near the keypad. The background shows a wooden door and a grey door handle.

# 14

VIDEO DOOR ENTRY &  
ACCESS CONTROL  
SYSTEMS



CCA+



SW CCA+



LCA MINI + SCA LCA



LCA MINI installed in existing video door system.



New Outdoor Panels from 2 to 8 push buttons

PE 2B

PE 8B



PCD-E + VE-AI



PD



MON 43V · MON 43W



Call answering from smartphone.



DPL-4 / DPL-4F



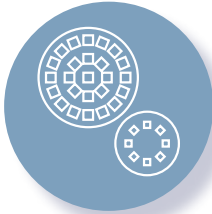
PFA 2420

ACCESS CONTROL SYSTEM

370001	CCA	Controller unit with AC/DC input power. Door opener AC or DC power supply.	1
370005	CCA +	Controller unit with AC/DC input power. Door opener AC or DC power supply. Up to 5000 users. SD card backup. New Windows PC software available	1
370021	CCA +W N	Controller unit with AC or DC door opener power supply. Up to 2500 users. Windows PC software with entry management through time-based configuration and access cards.	1
370022	UCCA N	Local control server for multiple CCA+W. Configuration and template upload.	1
-	SW CCA+/W	CCA+/ CCA+W configuration program for PC. Available at <a href="http://www.ek.plus/">www.ek.plus/</a> software	-
370002	LCA	Mifare type RFID card reader (13.56MHz). Power supply from controller unit. IP66 protection grade	1
370019	LCA MINI	Mini RFID card reader type Mifare (13,56 MHz). Power supply from the controller unit. IP 66 protection grade	1
370020	S LCA	LCA MINI support	1
371001	RF KEY	Mifare type RFID key	5
13/19500	VICD-30-12	12Vdc / 2A power supply for DIN rail	1

WIRE VIDEO DOOR PHONE SYSTEM FOR BUILDINGS

321009	PE 2B	Outdoor panel with 2 buttons. Surface mounting. With protection frame	1
321010	PE 4B	Outdoor panel with 4 buttons. Surface mounting. With protection frame	1
321011	PE 6B	Outdoor panel with 6 buttons. Surface mounting. With protection frame	1
321012	PE 8B	Outdoor panel with 8 buttons. Surface mounting. With protection frame	1
321008	PCD-E	Digital outdoor panel with RFID Mifare access control. Two-wire non-polarized system	1
321015	PCD-E-B	Digital outdoor panel with RFID Mifare access control. Two-wire non-polarized system. Black color	1
321014	PD	Directory panel. Black color	1
321004	CE PCD	Flush box for PCD E or PD	1
321007	VE-AI	Stainless steel protective frame for PCD E outdoor panel or PD	1
321005	VPS	Plastic protective frame for surface mounted PCD E outdoor panel or PD	1
371001	RF KEY	Mifare type RFID key	5
323002	PFA 2420	2-wire bus power supply	1
323003	DPL-4	Floor tap for 4 video monitor	1
323004	DPL-4F	End-line tap for 4 video monitors	1
320003	MON 43V	4,3" indoor colour monitor. Hands-free.	1
320005	MON 43W	4,3" color indoor WiFi monitor. Hands-free	1
320004	UAD	Indoor audio unit. Hands-free	1
323006	EXT 32	Extension and regeneration unit. Required for installations with more than 32 addresses/monitors	1
323007	PFA 2425	DIN rail supply 24Vdc/2.5A for EXT 32	1
325001	CVP 2	2-wire cable 0.5mm2. 250m reel. Floor wiring	1/4
325002	CVP 2-1,5	2-wire cable 1.5mm2. 200m reel. Trunk distribution / Long distances wiring	1/4



AUTO-ADJUSTING LIGHT SENSOR



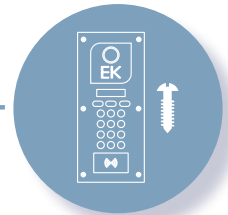
HIGH QUALITY CAMERA



LCD DISPLAY WITH SIMPLE AND INTUITIVE DIRECTORY



NUMERIC KEYBOARD TO SELECT APARTMENT WITH DIFFERENT PROGRAMMING MODES



STAINLESS STEEL PANEL WITH ANTI VANDALS SECURITY SCREWS



MIFARE RFID ACCESS CONTROL

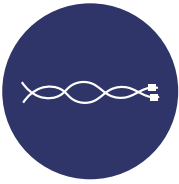


Black Outdoor Panel Option  
**PCD-E-B**



integration with PD directory

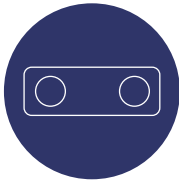
## General features



Non-polarized 2 wires system



Digital outdoor panel in stainless steel with high quality color camera



New Outdoor Panels with Push Buttons



Auto-adjusting light sensor



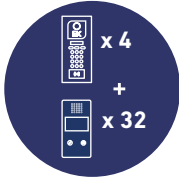
Compatible with outdoor door lock



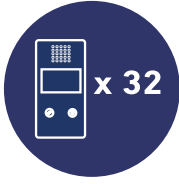
LCD display with simple and intuitive directory



Audio call volume adjustment on monitor



Up to 4 outdoor panels and up to 32 users (64 indoor units max)



Extension Unit for Over 32 Monitors



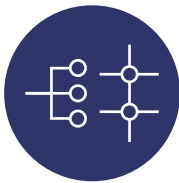
Monitoring function. Possible to watch the street without prior call



Easy to install and to program



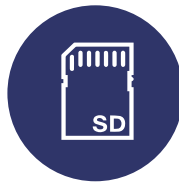
Integrated MIFARE access control



Paralell or series installation option



It can be used as replacement using existing cabling



SD card slot



Additional CCTV cameras option



Additional CCTV cameras option



OUTDOOR PANEL (PCD E) WITH PLASTIC FRAME FOR SURFACE MOUNTING



OUTDOOR PANEL (PCD-E-B) FOR SURFACE MOUNTING



DIRECTORY



HANDS-FREE INDOOR UNIT WITH 4.3" COLOR SCREEN.  
TWO OPTIONS: WITH AND WITHOUT WI-FI CONNECTION FOR CALL ANSWERING WITH A SMARTPHONE.



HANDS-FREE AUDIO INDOOR UNIT

**2-WIRE SINGLE-FAMILY VIDEO DOOR KITS**

322003	KIT HOME	Single-family kit. Includes outdoor panel for 2 wires installation with Mifare access control. 4.3-inch hands-free color monitor with stand. DIN rail power supply. Expandable up to 4 monitors and 2 outdoor panels.	1
322004	KIT HOME WIFI	Single-family WiFi kit. Includes outdoor panel for 2 wires installation with Mifare access control. 4.3-inch hands-free color monitor with stand. Wifi connection for call forwarding and opening via Smartphone. DIN rail power supply. Expandable up to 4 monitors and 2 outdoor panels.	1

**OUTDOOR PANEL WITH 1 BUTTON**

321013	PE 1BM	Outdoor panel with 1 button. Surface mounting. With protection frame	1
--------	--------	--	---

**DEMO KITS**

324005	MALETÍN DEMO	Demo kit briefcase for building installations. Plug & play	1
324007	MALETÍN WIFI DEMO	Demo kit briefcase for building installations with WiFi monitor. Plug & play	1

**VIDEOPORTERO RECAMBIOS**

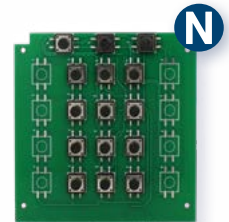
325003	CPL N	PCD-E housing + Reader + Microphone + Speaker	1
325004	PPP N	Complete PCD-E circuit. Includes screen	1
325005	TPE N	PCD-E Keyboard	1
325006	DLP N	Detector + LEDs PCD-E	1
325007	CPC N	PCD-E Camera	1
325008	FAP N	PCD-E aluminum front	1
325009	FAPN N	PCD-E front black aluminum	1



PE 1BM



MALETÍN WIFI DEMO



TPE



CPC

**KIT HOME      KIT HOME WIFI**



- ✓ Single-Family Video Door Kit
- ✓ Installation with 2 non-polarized wires
- ✓ Outdoor panel with camera, push button, and Mifare access control
- ✓ Hands-free 4.3-inch color monitor with wall-mount support
- ✓ DIN rail installation power supply
- ✓ Expandable up to 4 monitors and 2 outdoor panels
- ✓ Wi-Fi Connection for Call Forwarding and Remote Door Opening via Smartphone using the EK SMART App (KIT HOME WIFI)



Descarga



## GENERAL SALES CONDITIONS

### Prices

- Prices reflected in this price list are recommended retail prices and doesn't include taxes
- The invoicing will be made at the price in force on the day of shipment of the merchandise
- ITS PARTNER (O.B.S.) S.L.U. reserves the right to modify this price list, totally or partially, without prior notice.

### Orders

To place your orders, please send an email to [emanuela.zocchi@ek.plus](mailto:emanuela.zocchi@ek.plus)

### Transport

- The prices are EXW Barcelona, so it doesn't include freight cost.
- On each order, customer should be responsible to organize collection and delivery. Under customer's request, we can organize transport to their premises. This service should be quoted separately and after agreement, organized and invoiced along with other products.
- The transport companies are responsible for possible incidents during the trip (damage or faults). Before signing the delivery note, the consignee must check that there are no faults, and that the goods have been delivered in perfect condition. In the event that the goods are damaged, the customer must indicate it on the delivery note of the transport agency and immediately notify ITS Partner (O.B.S.) S.L.U. within 72 hours of the incident. If no incident is recorded on the delivery note, the responsibility will become solely the recipient.
- After 72 hours from the date of receipt of the goods, no claim will be accepted.

### Warranties and repairs

Ekselans by ITS products are guaranteed for three years, counting from the date of the purchase invoice. This warranty does not cover possible breakdowns or damages caused by misuse or incorrect installation, nor the cases of accidental event or force majeure. The warranty shall not exceed the exchange of the defective part for a new one. The materials that suffer a breakdown can be sent for repair using the form found in the following LINK, being essential to follow the indicated instructions:

[www.ek.plus](http://www.ek.plus), section "Documentation > General Sales Conditions"

### Claims and returns

- We will not accept returns that have not been previously authorized by ITS Partner (O.B.S.) S.L.U.
- Customer is responsible for the return freight cost (unless agreed between the parties). Goods must be sent with a copy of the related purchase invoice. Goods must be in perfect condition and have not undergone any intervention.
- No claims will be accepted after 7 days from receipt of the goods.

### Payment terms

The payment terms will be agreed between the parties.

### Goods ownership

ITS PARTNER (O.B.S.) S.L.U. reserves the ownership of the goods until the total payment of the same by the buyer. The customer must bear the interest and expenses caused by the non-payment within the established deadlines, regardless of other possible legal actions, including the recovery of the goods and compensation for damages.

### Jurisdiction

These general sales conditions shall be governed by Spanish law.

Buyer and seller submit, waiving their own jurisdiction, to the jurisdiction of the Courts and Tribunals of Barcelona.

### Information

- The mere acceptance by the buyer of our invoice or delivery note, implies its explicit conformity to all these conditions of sale.
- Delivery times are given as an indication. Delays in deliveries may in no case justify compensation.
- Unless expressly indicated by the client, ITS PARTNER (O.B.S.) S.L.U. reserves the right to make partial deliveries of an order.



## RMA PROCESS

The **RMA** (Return Merchandise Authorization) is the process that allows us to optimize the deadlines and the quality of service of our technical service. In case of failure of any of the Ekselans by ITS products, the following procedure must be followed:

### Products under warranty

All Ekselans by ITS products have a three-year warranty. For this, it is essential to keep the purchase invoice and fill in the form found on the following website:

**[www.ek.plus](#) > section "Documentation > Repairs / RMA"**

Once completed, you must send the form and a purchase invoice copy to the email address [rma@ek.plus](mailto:rma@ek.plus). You will then receive an RMA number and you must ship the goods postage paid to the following address, clearly stating the RMA number outside the package.

#### For urgent repairs:

SERVIÇO TÉCNICO EK PORTUGAL – WISITRON  
Rua José Carlos Ary dos Santos 20  
A das Lebres (Loures)  
2660-173 Santo Antão do Tojal  
PORTUGAL  
Tel. +351 219838700

#### For standard repairs:

EKSELANS by ITS - ITS Partner O.B.S. S.L.U.  
Av. Cerdanyola 79-81 Local C  
08172 Sant Cugat del Vallès  
Barcelona  
ESPAÑA  
Tel: +34 93 583 95 43

### Important:

- Verify that the goods are really damaged or defective. Otherwise, all the costs arising from the intervention and the transport costs will be invoiced to you. The rate applied per labor is equivalent to € 15 for every 30 minutes. If necessary, a repair budget may be requested. In case of not accepting the budget, € 12 will be billed for the time spent.
- Once the process has been completed, the goods will be returned at postage paid. In case the repair cause is beyond our responsibility, or it is a product out of warranty, we will proceed to the billing of the return shipments.
- In the event of product has been purchased through an official distributor, they must contact the same, who will be responsible for processing the repair.
- All our repairs include a one-year warranty.

### Out-of-Warranty Products

In case the product is out of warranty, or the purchase invoice has been lost, you can also send your product to be repaired. In this case please note that the rate applied per labor is equivalent to € 15 for every 30 minutes. To do this, you must fill in the form that you will find on the following website:

**[www.ek.plus](#) > section "Documentation > Repairs / RMA"**

Once completed you must send the form to the email address [rma@ek.plus](mailto:rma@ek.plus). Subsequently you will receive an RMA number and must send the goods at postage paid to the following address, clearly stating the RMA number on the outside of the package:

#### For urgent repairs:

SERVIÇO TÉCNICO EK PORTUGAL – WISITRON  
Rua José Carlos Ary dos Santos 20  
A das Lebres (Loures)  
2660-173 Santo Antão do Tojal  
PORTUGAL  
Tel. +351 219838700

#### For standard repairs:

EKSELANS by ITS - ITS Partner O.B.S. S.L.U.  
Av. Cerdanyola 79-81 Local C  
08172 Sant Cugat del Vallès  
Barcelona  
ESPAÑA  
Tel: +34 93 583 95 43

If necessary, a repair budget may be requested. In case of not accepting the budget, €12 will be billed for the time spent. Once the repair is made, you will be notified of the amount and will be provided with an account number to make the payment of the same. After receiving the payment, the goods will be sent postage due by the indicated transport agency.



**SEDE CENTRAL**

Av. Cerdanyola 79-81 Local C  
08172 Sant Cugat del Vallès  
Barcelona (Spain)  
Tel: 93 583 95 43  
info@ek.plus

**SEDE MADRID**

Plaza de la República de Ecuador, 2 1º A  
28016 Madrid (Spain)  
info@ek.plus

**DELEGACIÓN CANARIAS**

Calle Invierno 113  
35018 Las Palmas de Gran Canaria (Spain)  
Tel: 928 23 60 40  
almacen.canarias@ek.plus

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