



TDH 800 Modular Headend - the all-rounder with innovative pool technology

The TDH 800 headend is ideal for those looking for a flexible, compact and reliable solution, with a range of input and output modules for all popular TV distribution formats. If you need additional features such as multi unit or IP-in/out, then please select the TDX headend.

Easy installation

- Housing designed to accommodate up to 16 input and 6 quad output modules, making it possible to support 12 CAM modules
- Can easily be installed on a wall or a 19" cabinet
- All input and output modules as well as all cables can be accessed and operated easily from the front
- Input and output modules identified via TRIAX supplied labels
- DiSEqC 1.0 functionality
- Saves time on installation

Intuitive configuration

- Browser-based user interface configuration without additional software
- Easy, intuitive step-by-step configuration
- The four adjacent output channels per output module can be freely selected across the full frequency range
- MUX bandwidth monitor to ensure that the MUX is not overloaded
- PID Management – No need for retuning TV sets in rooms when services are changed
- LED to indicate operation and errors on each module

Effortless service handling

- Input modules are independent of output modules, resulting in a smaller number of modules overall. Fewer modules – allows easy spare part handling
- Log file on all TDH 800
- On-location access to the TDH system for installer and/or TRIAX support

IP Pool and Multiplex technology

- Up to 16 input modules in a combination of DVS-S/S2, DVB-T/T2, DVB-C, AV and HDMI in
- Up to 6 Quad-output modules for up to 24 channels in any combination of PAL, QAM, COFDM
- More relevant TV services because of service filtering and multiplexing
- Output modules support up to 2 CAM modules. With full configuration per base up to 12 CAM modules possible
- IP Pool-Technology - Input and Output modules are independent of each other

Energy-saving – long-term reliability

- 16 tuners and 6 backends fully loaded - only 280 W power consumption
- Intelligent cooling system with integrated fans – increases the service life of the equipment.
- The cooling system supports 19" rack/cabinet mounting.



TDH 800 Cabinet - Main Unit
Art. No.: 692890
EAN Number: 5702666928906



	TDH 811 Frontend DVB-S/S2 [QPSK/8PSK]	TDH 813 Frontend DVB-T/T2 [COFDM]	TDH 816 Frontend DVB-C	TDH 814 Frontend AV encoder module	TDH 815 Frontend HDMI
ORDER INFORMATION					
Art. Number	692820	692823	692824	692880	692830
EAN Number	5702666928203	5702666928234	5702666928241	5702666928807	5702666928302
CHARACTERISTICS					
Code rates DVB-T		1/2, 2/3, 3/4, 5/6, 7/8			
Code rates DVB-T2		1/2, 2/3, 3/4, 5/6			
Constallations DVB-T		QPSK, 16QAM, 64QAM			
Constallations DVB-T2		QPSK, 16QAM, 64QAM, 256QAM			
Demodulator Symbolrate	Msym/s		1.8 to 7.2		
Demodulator Type		COFDM	QAM		
DiSEqC level	1.1				
Input Aspect Ratio				4:3, 16:9	
Input level	dBμV	50...85	40...85	45 ... 85	
Input QAM modes			16QAM, 64QAM, 128QAM, 256QAM		
Input Video S/N Ratio	dB			> 52	
Input video standards				PAL, Secam	720x480i30, 720x480p60, 720x576i25, 720x576p50, 1080x720p50, 1280x720p60, 1920x1080i25, 1920x1080i30, 1920x1080p25, 1920x1080p30
LNB LO/HI programmable	kHz	0/22			
LNB V/H programmable	V/mA	0-13-18/300			
Output Video Codec				MPEG-2, MPEG-4	MPEG-2, MPEG-4
FREQUENCY					
Bandwidth	MHz		7/8	8	
Input frequency range	MHz	950...2150	VHF III 177.5 - 226.5 MHz /UHF 474 - 858	114 - 858	
RETURN LOSS					
Input return loss	dB	> 10	> 6	> 10	> 26
ELECTRICAL					
Impedance	Ω	75	75	75	75
Input Audio Impedance	kΩ			10 ± 1	
Physical Interface				CVBS	
CONNECTORS					
Input connector		F-female	F-female	F - female	15pol Sub-D
Input Type					HDMI female HDMI (HDCP compliant)

TRIAX® TDH

Output Modules



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	TDH 843 Backend COFDM	TDH 844 Backend COFDM 2CI	TDH 845 Backend QAM	TDH 846 Backend QAM 2CI
ORDER INFORMATION				
Art. Number	692860	692861	692855	692856
EAN Number	5702666928609	5702666928616	5702666928555	5702666928562
CHARACTERISTICS				
Carrier supported	2K	2K		
MER	dB ≥ 35.0	dB ≥ 35.0	dB ≥ 38.0	dB ≥ 38.0
Output Audio S/N Ratio	dB	dB	dB	dB
Output level adjustment	dB +3...-17	dB +3...-17	dB +3...-17	dB +3...-17
Output Level System	dBμV 90.0 ± 1.5	dBμV 90.0 ± 1.5	dBμV 90.0 ± 1.5	dBμV 90.0 ± 1.5
Output QAM Modes	16QAM, 64QAM, QPSK	16QAM, 64QAM, QPSK	16QAM, 32QAM, 64QAM, 128QAM, 256QAM	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Output symbol rate	Mbit/s		3.15...7.2	3.15...7.2
Output Video S/N Ratio	dB			
Sound sub carrier	MHz			
Spurious Signals	dB > 60	dB > 60	dB > 60	dB > 60
FREQUENCY				
Channel Raster	MHz 7, 8, 8.5	MHz 7, 8, 8.5	MHz 7, 8, 8.5	MHz 7, 8, 8.5
Output frequency range	MHz 50.5 - 858	MHz 50.5 - 858	MHz 50.5 - 858	MHz 50.5 - 858
RETURN LOSS				
Output Return Loss	dB > 10	dB > 10	dB > 10	dB > 10
ELECTRICAL				
Impedance	Ω 75	Ω 75	Ω 75	Ω 75
OPERATIONAL				
CI slots	0	2	0	2
CONNECTORS				
Connector Type	F-female	F-female	F-female	F-female



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	TDH 848 Backend PAL-HD Downscale FTA	TDH 849 Backend PAL-HD Downscale CI	TDH 847 Backend 2CI
ORDER INFORMATION			
Art. Number	692852	692853	692870
EAN Number	5702666928524	5702666928531	5702666928708
CHARACTERISTICS			
Carrier supported			
MER	dB	dB	dB
Output Audio S/N Ratio	dB 50	dB 50	dB
Output level adjustment	dB +3...-17	dB +3...-17	dB
Output Level System	dBμV 93	dBμV 93	dBμV
Output QAM Modes			
Output symbol rate	Mbit/s	Mbit/s	Mbit/s
Output Video S/N Ratio	dB ≥ 57	dB ≥ 57	dB
Sound sub carrier	MHz 5.5 / 5.74 / 6.0 / 6.5	MHz 5.5 / 5.74 / 6.0 / 6.5	MHz
Spurious Signals	dB > 60	dB > 60	dB
FREQUENCY			
Channel Raster	MHz 7, 8	MHz 7, 8	MHz
Output frequency range	MHz 47 - 862	MHz 47 - 862	MHz
RETURN LOSS			
Output Return Loss	dB > 10	dB > 10	dB
ELECTRICAL			
Impedance	Ω 75	Ω 75	Ω
OPERATIONAL			
CI slots	0	2	2
CONNECTORS			
Connector Type	F-female	F-female	F-female