



TRIAX



# Configuration guide

## TDH 800 DVB-S/S2 Module

Model

**TDH 800 DVB-S/S2 Module**

Item no.

**692820**

Version

**891573A**

**08 - 2013**

EN

[triax.com](http://triax.com)

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## Introduction

This document describes the configuration of the DVB-S/S2 Input module for the TDH 800 headend.

Physical installation of the module is described in the TDH 800 main unit installation guide.

## System requirements

### Computer minimum requirements

A computer meeting the following minimum requirements is required for configuring the headend.

Operating system Windows XP or above

Browser Windows Internet Explorer version 6.0 or equivalent

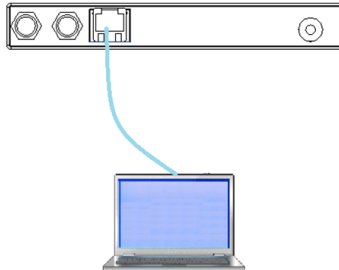
Additional software Microsoft® Silverlight Runtime version 3.0 or above

### Static IP address

A static address must be used on the computer used to configure the headend.

Refer to the computer's operating software documentation for assistance on configuring static IP addresses.

### Physical connection to headend

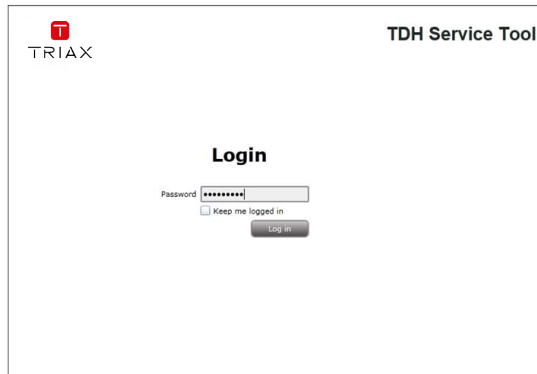


- Connect a Cat5e shielded cable or better between the computer's network port and the configuration port on the headend.

# Introduction

## Service tool

1. Open a web browser window.
2. Enter '**http://192.168.0.100**' in the web address field.
3. Press **Enter**.



The screenshot shows a web browser window displaying the login page for the TDH Service Tool. In the top left corner, there is a logo consisting of a red square with a white letter 'T' inside, followed by the word 'TRIAx' in a sans-serif font. In the top right corner, the text 'TDH Service Tool' is displayed. The main heading in the center is 'Login'. Below this heading, there is a password input field with the label 'Password' and a series of asterisks. To the right of the password field is a checkbox labeled 'Keep me logged in'. Below the checkbox is a dark grey button with the text 'Log in' in white.

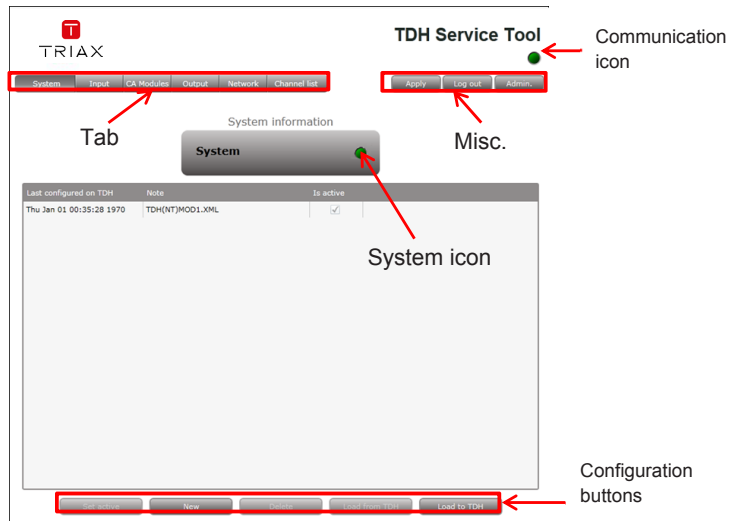
4. Enter the password.
5. Press the **Log in** button.

### Note:

Password = '**triax1234**' when the service tool is opened for the first time.

The **Keep me logged in** checkbox overrides the system's automatic time out function, which is activated after 20 minute's inactivity.

## Overview



## Icons

Indicates whether the service tool is communicating correctly with the headend unit.

**Green** The service tool and headend are communicating correctly.

**Red** The service tool and headend are NOT communicating correctly.

Indicates whether the headend unit is functioning correctly.

**Green** The headend unit is functioning correctly.

**Red** The headend unit is functioning correctly.



# Introduction

<b>Tabs</b>		Accesses the various tabs used to configure the headend's input and output modules.
	<b>System</b>	The service tool's 'home' window. Provides system overview information and configuration activation/control.
	<b>Input</b>	Tab for configuring input modules and services. Refer to input module manuals for information.
	<b>CA Modules</b>	Tab for configuring CI modules and CA cards. Refer to output module manuals for information.
	<b>Output</b>	Tab for configuring output modules and services. Refer to output module manuals for information.
	<b>Network</b>	Tab for defining customer specific settings that are network related, e.g. Network name, ID, and for defining HD/SD channel numbering.
	<b>Channel List</b>	Tab for viewing the channels being transmitted from the headend, as defined in the <b>Input</b> , <b>CA Modules</b> and <b>Output</b> tabs. Refer to input module manuals for information.
<b>Misc. Buttons</b>	<b>Apply</b>	Stores configuration settings on the SD card located in the headend.
	<b>Button colour</b>	
	Red	There are changes that have not been stored on the headend's SD card.
	Grey	All changes are stored on the headend's SD card.
	<b>Log In/Out Admin.-</b>	Service tool access control. Opens the settings for service tool window, where language, location, time zone, and initial IP addresses are specified.

## Configuring DVB-S/S2 input modules

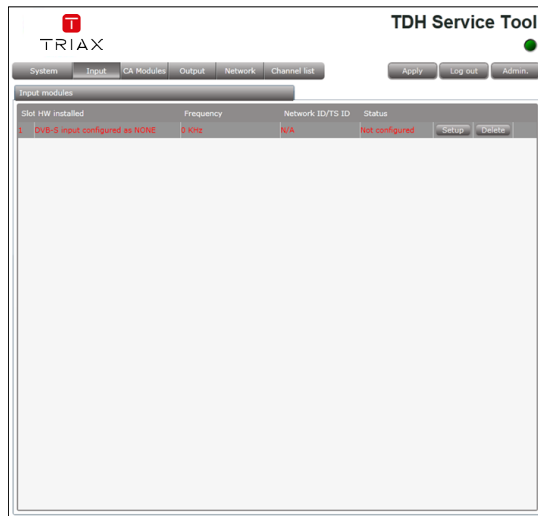
### Pre-requisites

The headend is running, the input module is in position, and the TDH Service Tool is connected to the headend.

See the TDH 800 Headend User Guide for information on inserting the input module into the TDH 800 headend.

### Configuration

1. Select the **Input** tab in the TDH Service Tool.



2. Press the **Setup** button of the input module to be configured.

# Configuration

TRIAx TDH Service Tool

System Input CA Modules Output Network Channel list Apply Log out Admin

Back DVB-S input setup Spot 1 All None

Configuration

Frequency (MHz) 0

Polarity DV Off

Symbol rate 0

LNB settings Advanced

Satellite band KU

LNB type Univ

LOF low 9750

LOF high 10400

LOF switch 11700

Update

Reset input Submit

Submit button

Status information

Status	Bit error rate	Locked frequency	TS symbolrate	Input TS Rate	Input TS Lock
Not locked	0	N/A	N/A	N/A	Not Locked
Mapped TS Rate	SW-Revision				
N/A	2.0.1.27611				

Services

Types SID Selected services

Multi-service selection

Service list area

Update button

Reset input button

Status area

Default values are displayed when the configuration tab is opened for the first time. Note also that the service list area is empty.

TRIAx TDH Service Tool

System Input CA Modules Output Network Channel list Apply Log out Admin

Back DVB-S input setup Spot 1 All None

Configuration

Frequency (MHz) 10754

Polarity 18V Horizontal

Symbol rate 22000

LNB settings Default

Update

Reset input Submit

Status information

Status	Bit error rate	Locked frequency	TS symbolrate	Input TS Rate	Input TS Lock
Locked	0	10742	22000	33.862 Mb/s	Locked
Mapped TS Rate	SW-Revision				
0.2 Mb/s	2.0.1.27611				

Services in system 0

Services Types SID Selected services

3. Enter the relevant **Frequency**.
4. Select the relevant **Polarity**, the options are:
  - 0V Off (default)
  - 13V Vertical\*
  - 18V Horizontal\*



# Configuration

\* The **DiSEqC settings** button is activated when this polarity type is selected, See Specifying DiSEqC settings below

**Note** that '0V Off' must be selected on a DVB-S input module if it receives signals via another DVB-S input module, i.e. the signal is 'Looped'.

5. Specify the relevant **Symbol rate**.
6. Select the relevant **LNB setting**. **Additional input** fields are displayed if 'Advanced' is selected, see **Specifying advanced LNB settings** below.
7. Press the **Update** button.

**TDH Service Tool**

System Input CA Modules Output Network Channel list Apply Log out Admin

Back DVB-S input setup Slot 1

Configuration

Frequency (MHz) 10754

Polarity 18V Horizontal

Symbol rate 22000

LNB settings Default

DiSEqC settings Update

Reset input Submit

Services in system 6 All None

Services	Types	SID	Selected services
arte	TV	28724	<input checked="" type="checkbox"/>
Einfestival	TV	28722	<input checked="" type="checkbox"/>
EinsPlus	TV	28723	<input checked="" type="checkbox"/>
RHOENIX	TV	28725	<input checked="" type="checkbox"/>
tagesschau24	TV	28721	<input checked="" type="checkbox"/>
Test-R	TV	28726	<input checked="" type="checkbox"/>

Status Information

Status	Bit error rate	Locked frequency	TS symbolrate	Input TS Rate	Input TS Lock
Locked	0	10742	21999	33.862 Mb/s	Locked

Mapped TS Rate 0.1 Mb/s SW-Revision 2.0.1.27611

The services list area is populated with the services that can be delivered from the input module.

8. Press the **All** button to make all the services in the services list area available in the TDH pool, or, alternatively select individual services by checking the relevant check box.
9. Press the **Submit** button.
10. View the status information at the bottom of the page to check that the input module is functioning correctly:

Field	Contents
Status	Whether the input module is locked or not.
Bit error rate	The rate at which errors occur in the transmission.
Locked frequency	Displays the actual frequency that the input module is locked onto.

# Configuration

TS symbol rate	Displays the actual symbol rate.
Input TS Rate	Displays the how much data the transport stream (TS) of the input module delivers to the TDH 800 system.
Input TS Lock	Displays the how much data the transport stream (TS) of the input module delivers to the TDH 800 system.
Mapped TS Rate	Displays how much data is mapped to the output modules from the corresponding input.
SW revision	Displays the software version of the input module.

**The software version displayed must be identical with that installed on the TDH 800 main unit and on all other input/output modules.**

**Update the software for the entire TDH 800 headend (including input/output modules) if this is not the case.**

## Advanced settings

### LNB settings

Additional input fields are displayed when 'Advanced' is selected in the **LNB settings** drop-down list.

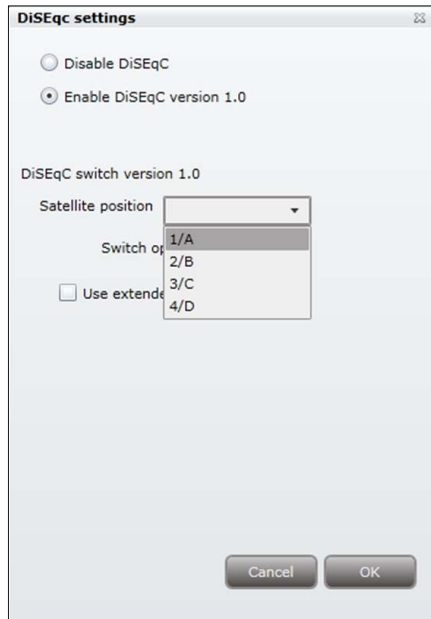
1. Select the required **Satellite band**.
2. Select the required **LNB type**.
3. Specify the relevant **LOF low**, **LOF high** and **LOF switch** parameters.

### DiSEqC settings

It is necessary to select a satellite position if a Digital Sequence Equipment Control (DiSEqC) switch is installed.

1. Press the **DiSEqC settings** button.

**Note** that the **DiSEqC settings** button is only active if '13V Vertical' or '18V Horizontal' is selected in the **Polarity** drop-down list.



The **DiSEqC settings** are disabled by default.

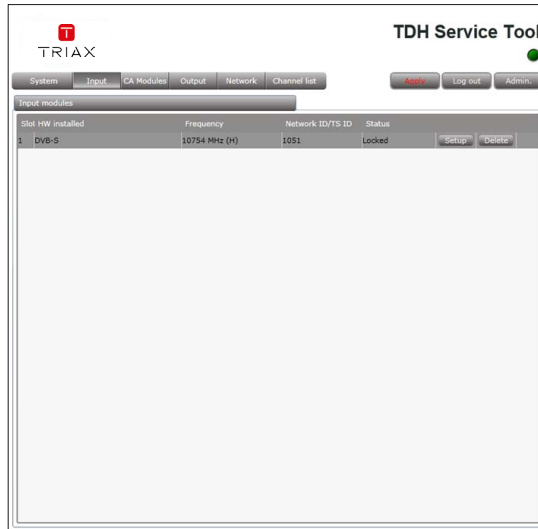
2. Select the **Enable DiSEqC version 1.0** radio button to specify the required settings.
3. Select the required **Satellite position**.
4. Check the **Use extended position/polarity** checkbox to enable 16 positions if the DiSEqC switch does not support vertical (13 volts)/horizontal (18 volts) polarisation and High Band/Low Band frequencies.
5. Press **OK** to save the specified settings and to return to the **Configuration** window.
6. Press the **Update** button.

## Modifying

1. Press the **Setup** button for the input module to be modified.
2. Make the desired changes.
3. Press the **Update** button.
4. Press the **Submit** button.
5. Press the **Apply** button in the **Configuration** window

# Configuration

## Deleting



1. Press the **Delete** button of the input module to be removed. A confirmation popup is displayed.



2. Press **Yes** to remove the input module.

The input module is displayed in red in the **Input** tab.

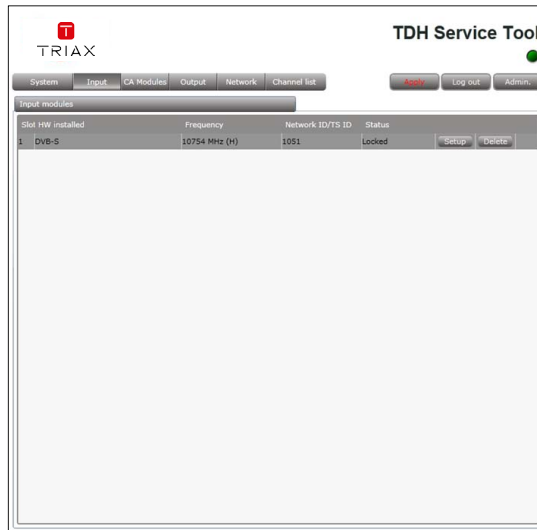
3. Turn off the headend.
4. Physically remove the input module from the headend.
5. Restart the headend.
6. Restart the service tool.

The input module will no longer be listed in the input module list.

## Completion

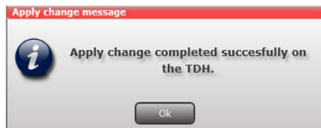
4. Press the **Submit** button.

The output module's first slot is now successfully configured, as shown below.



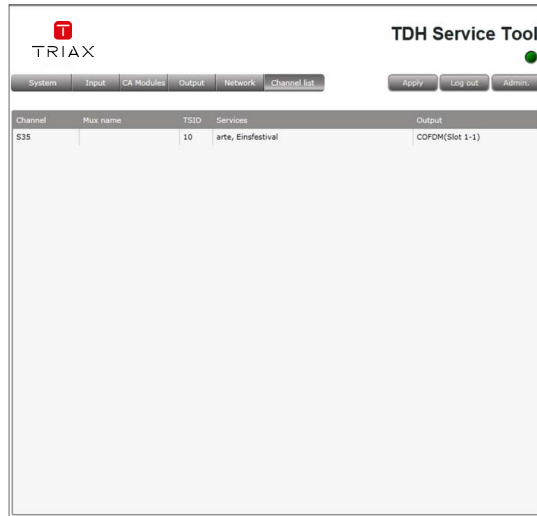
5. Press the **Apply** button.

The following confirmation is displayed.



And the two services that were selected are visible in the **Channel list** tab.

# Configuration



The remaining slots on the output module can now be configured in the same manner.

## Modifying

1. Press the **Setup** button for the output module to be modified.
2. Make the desired changes.
3. Press the **Update** button.
4. Press the **Submit** button.
5. Press the **Apply** button in the **Configuration** window

## Deleting

1. Press the **Delete** button of the output module to be removed.
- A confirmation popup is displayed.



2. Press **Yes** to remove the output module.

The output module is displayed in red in the **Output** tab.

3. Turn off the headend.
4. Physically remove the output module from the headend.
5. Restart the headend.
6. Restart the service tool.

The output module will no longer be listed in the input module list.



# TRIAX

## Manufacturer

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## DECLARATION OF CONFORMITY

TRIAX confirms that the product conforms to relevant EEC harmonised standards and consequently can carry the CE-mark.

Relevant harmonised standards:

DE/EN 60728-2 2010, DS/EN 60728-11 2010 and DS/EN 50083-2 2006

This document is only valid with the signature of the person responsible for CE-marking by Triax

Date: October 2012

Signature:

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