Triax A/S

TDX/TDH800 Release

3.1.1.xxx

SUMMARY

Release description of TDX and TDH800 software release

0 Table of Contents

1 New features

- Viasat EPG
- SNMP for RPS
- NTP
- HDMI V0.11
- Support of the new DVB-T and DVB-S frontend chipset

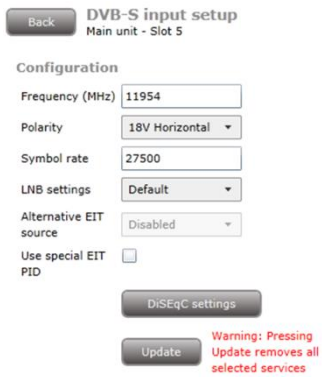
2 New features – mini guide

2.1 New Function: Use special EIT PID

With the function „Use special EIT PID“ it is possible to use the PID 57 instead of the PID 18.

Please notice that it is not possible to modify the PID. The PID 57 which is used instead of 18 is fix coded!

➔ This is a mandatory function for ViaSat TV services.



2.2 SNMP now also supports the external Redundant power supply.

This means is a customer has installed the option SNMP it is now possible also to control the redundant power supply.

The following trap will be send out at the TDX control port if their is a failure with one of the power supply's in the redundant power supply.

3.1.1.22triaxPSUNoLongerWorksTrap
OID: 1.3.6.1.4.1.41359.1.0.22
Description: This Trap is generated when one of the Power Supply(PSU) no longer works in the redundant PSU.

2.3 New Function: NTP (Network Time Protocol)

With the function „Network Time Protocol” it is now possible to use a network time for the time synchronization.

Please notice that if you defined the DNS servers in the IP settings it is also possible to use a URL instead of a IP address in the NTP settings!

➔ Please notice that the Time information is mandatory if you use CAM modules. So for IP-in, AV or HDMI only solution it could be very helpfully.

2.4 New encoder software for the HDMI frontend module 492030

With the new encoder software the HDMI frontend is able to support the following input resolutions:

Video formats (SD) 480i30; 480p60; 576i25; 576p50;

Video formats (HD) 720p50/60; 1080p25/30; 1080i25/30

How to make a update of existing modules you can find in the user manual of the HDMI frontend.

2.5 Support new DVB-S and -T tuners (1)

The new Software Release 3.1 (SW-3.1.1.31792) support the new frontend chip sets for DVB-S and DVB-T.

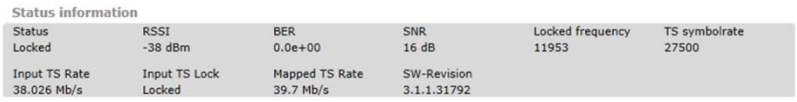
- ➔ The new DVB-S frontend will have the same number.
- ➔ The new DVB-S frontend have no loop though connector (functionality)!
- ➔ It is mandatory to have the Software 3.1 and higher to use the new frontend

During the implementation of the new frontend chipset we have added a new feature which show the “Input level”, “Bit Error Rate” and “Signal to noise” of the DVB-S frontend.

This is a great functionality which we can use in a service case to check if the input signal quality and level is in the range a DVB-S frontend supports.

The Input level is show in dbm, but it is a easy calculation to dByV if you need it in dbyV.

dByV = 107 + dbm In the sample below: 107 + (-35 dBm) = 72 dByV



2.6 How to format the flash file systems or force the TDX system in failsafe mode.

Please remember!

With the new Software Release 3.0 we store all critical files on the flash and if this fails for some reason, we can not remove it and do a format in the PC like we could do before with the SD card.

To support failure cases where we need to:

- ➔ format the file systems in the flash
- ➔ force to start the TDX system controller in failsafe mode

we have two new rotary switch functions:

Format file systems in flash:

Use the following steps to format the file-systems in flash

1. Set rotary wheel to 6
2. Reboot TDX
3. Wait for the 4 front LEDS to blink red
4. Set wheel to 2
5. The 2nd diode should slowly blink green followed by fast blinking green after some seconds
6. Wait for diode to turn solid green
7. Set wheel back to original position
8. Reboot

Force the TDX system controller in failsafe mode:

Setting system controller in failsafe mode

1. Set rotary wheel to 6
2. Reboot TDX
3. Wait for the 4 front LEDS to blink red
4. Set wheel to 1
5. The 1st diode should slowly blink followed by fast blinking green
6. Wait for diode to turn solid green
7. Set wheel back to original position
8. Reboot

2.7 Reinitialize SD card

With this new function it is possible to reinitialize the SD card inside each TDX unit (main, sub1 and sub2). This function delete all information at the SD card and format the SD card without physical having the SD card out of the SD card slot. This function is made possible after all critical data (configuration, GUI files and license files) are moved to the flash. None critical data kept at the SD card is log file and SW updates packages. These none critical data will be delete by this function.

This function shall be used after the TDX GUI pop up with a “SD card corrupt” warning.