



IP to ASI & ASI to IP converter

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Safety and operating instructions

When installing, starting-up and adjusting the devices, it is necessary to consider the system specific references in the instruction manual.

The devices may be installed and started up by authorized technical personnel only.

When installing the devices into the receiving points, the adherence of the Electro Magnetic Compatibility regulations is to be ensured.

The installing and wiring have to be done without voltage.

With all work the defaults of the EN 50083 standard (Cable networks for television signals, sound signals and interactive services. Part 9: Interfaces for CATV/SMATV headends and similar professional equipment for DVB/MPEG-2 transport streams) have to be considered.

If installing in mounting RACKs an adequate air circulation must be guaranteed. The mounting in closed RACKs without sufficient air flow is not allowed.

The devices are necessary to insert the mains plug into a socket with protective contact.

Device variants

Variant A. 1-channel IP_to_ASI&ASI_to_IP_CONVERTER

Variant B. 2-channel IP_to_ASI&ASI_to_IP_CONVERTER

Variant C. 3-channel IP_to_ASI&ASI_to_IP_CONVERTER

Variant D. 4-channel IP_to_ASI&ASI_to_IP_CONVERTER

Software options

- FTA_ASI_TS

- TROPHY_ACCESS_ASI_TS (TROPHY-ACCESS scrambler activation)

General

IP to ASI&ASI to IP Converter is a devices of the IP/DVB Head-End, which is conceived as a complete system for the broadcasting.

Converter is designed to:

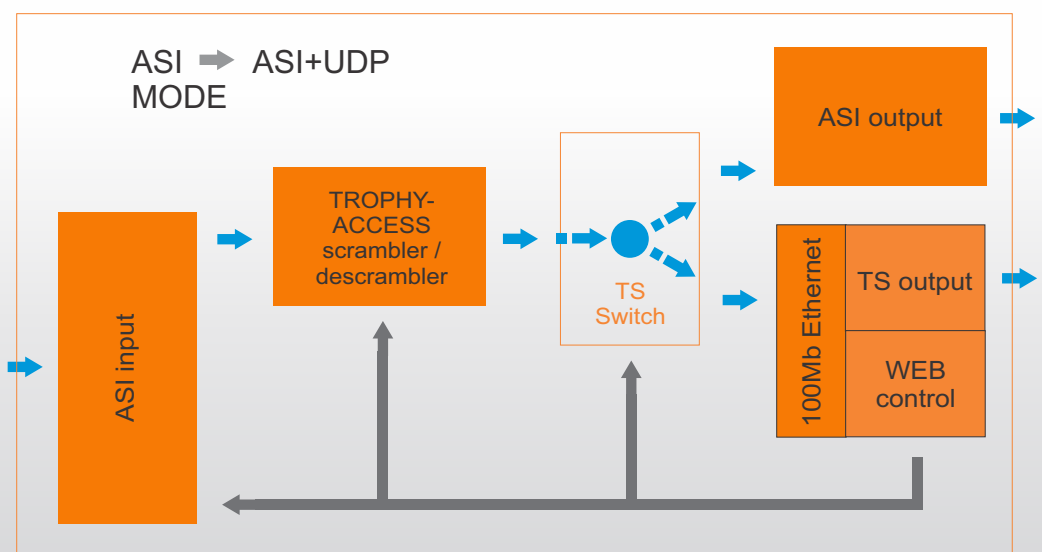
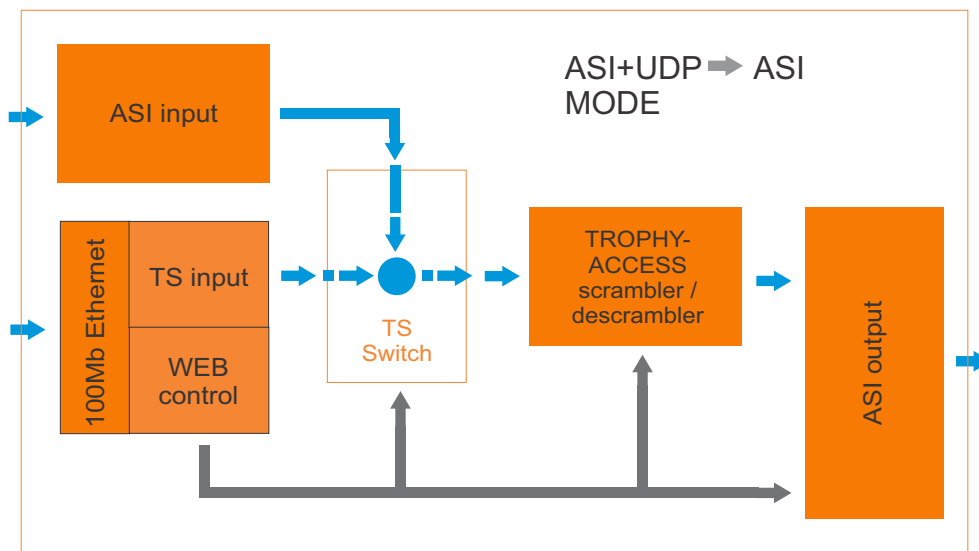
- Receiving unicast UDP- packets and converting UDP- packets to ASI-data;
- ASI- data reception (no more than 80 Mbps) from external sources and converting ASI-data to UDP- packets ;
- Trophy-Access 2.0 scrambling of ASI- packet into IP to ASI converter.

Up to four separately converters building into one 19-inch case.



STATUS LED indicates the efficiency of the converter. Green LED gives light in the case of the normal operation of the converter. Red LED gives light in case of system malfunction.

SYNC LED indicates the presence of ASI signal (ASI SYNC) at input of the converter.



Management of settings of IP / ASI converter provide by WEB interface.

IP address of converter: 10.10.10.99

Name: admin

Password: admin

Configuration Menu



Info

Config

Password

DVB Scrambler configuration

IP Address: 10.10.10.99

Subnet Mask: 255.255.255.0

Default Gateway: 10.10.10.1

Mode: ASI+UDP->ASI ▼

UDP Port: 1000

Scrambler Enable: ☒

Accept Cancel

You can change the network parameters of converter in the configuration menu. You can change the data input (UDP or ASI), enable / disable the TROPHY-ACCESS scrambling of transport stream (additional license is needed).

Attention! If you use the converter separately from the RTS Trophy head-end do not forget to disable the scrambling of ASI-packages (click to Scrambler Enable).

INFO Menu



Info

Config

Password

Device info

Chip ID	0x3231470B.32383435.00260033
SoftWare version	1.6
FPGA FW version	1.07
Encryption type	2
Ethernet HW Address	FE:FF:47:0B:00:26

Menu of Password Change



The screenshot displays the TROPHY web interface. At the top, the word "TROPHY" is shown in large, blue, block letters. Below this, a sidebar on the left contains three menu items: "Info", "Config", and "Password". The "Password" item is highlighted. The main content area is titled "Change password" and contains two input fields labeled "New Password" and "Confirm Password". Below these fields are two buttons: "Change" and "Cancel".

You have the possibility to change the password for confidential in this menu.

TROPHY-ACCESS CAS

The TROPHY-ACCESS CAS (Conditional Access System) developed without CSA algorithm, which ensures high reliability and lack of pirate viewing (named Cardsharing). Scrambler is performed into the IP to ASI&ASI to IP converter.

The Billing server provides office. The decoder automatically switches off at a zero balance in the subscriber account number.

Options	
Type of CAS	Cardless, doesn't match CSA algorithm
Polynomial length	2048 bits
The size of the decoder address field	32 bits
Quantity of addressable decoders	4,294,967,295
The number of serviced channels	without any restrictions
The number of packets serviced	without any restrictions
Automatic disconnection of the decoder	with zero balances in the account
Individual addressable message	up to 120 characters