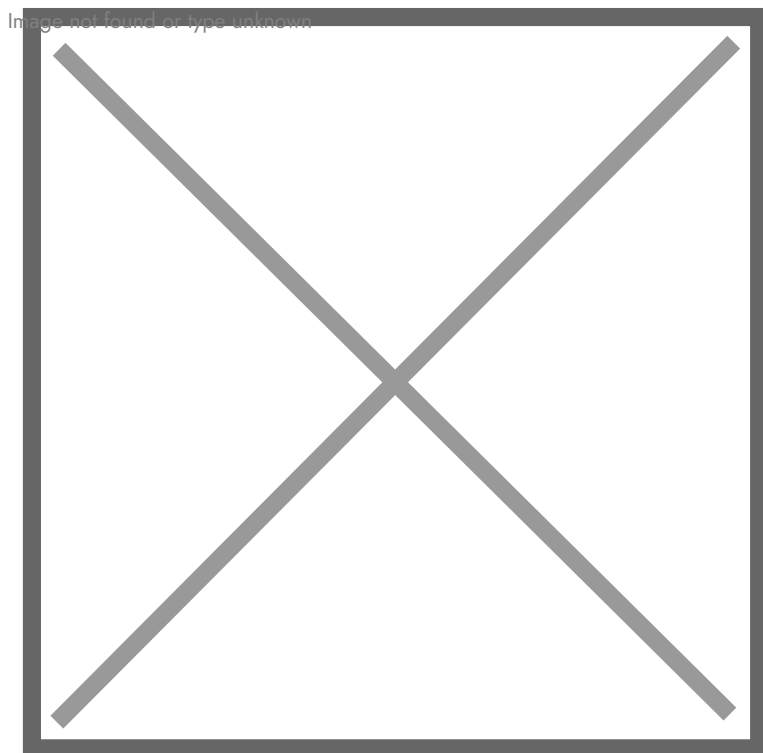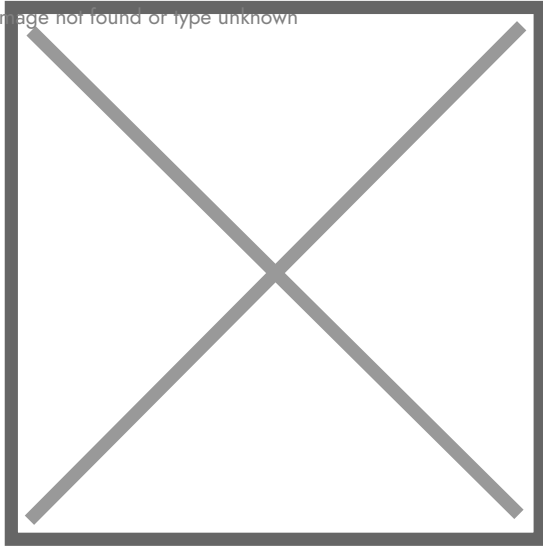# DVB-T/T2 8-ASI SCRAMBLER

DVB-T/T2 8-ASI Scrambler is professional solution for multichannel digital video broadcasting: it is broadcasting server with its own memory and integrated multiplexer, scrambler and modulator — all in one device — powerful conditional access system

Using our DVB-T/T2 8-ASI Scrambler (in which are integrated remultiplexer, scrambler and DVB-T/T2 modulator) you are able to organize digital CATV broadcasting network including PC channels monitoring system.

The range of the output frequency adjustment for 2 configuration variants: 1RF and 2RF respectively

Examples of packages spectrum arrangement within 48 MHz of 2 RF carriers

KEY FEATURES:

- DVB-T/T2 8-ASI Scrambler has integrated re-multiplexer with 8 ASI inputs — which allows you to form program packages from 8 independent transport streams for further broadcasting
- One or two carriers can be set within 36-850 MHz range, subcarrier frequency can be set within 48 MHz
- Supports both SD (Standard Definition) and HD (High Definition, 1920x1080i) channels, H.264 / H.265 standard
- Typical DVB-T/T2 set-top-boxes with CI can be used as subscribers' receivers
- 90% of STBs with CI support the working with DVB-T/T2 8-ASI Scrambler
- Connection to PC for management: Ethernet (100 Mbit/s), RJ45
- 1Gbit data port for IP output (UDP/RTP protocol)

MAIN FUNCTIONS:

- Works 24/7/365
- Supports state-of-art broadcasting standards
- Automatic and manual PID insertion
- EPG, OTA, LCN support, Network search
- Generation of output stream with up to 92 PID selected from 8 ASI inputs
- Optional enabling/disabling of stuffing in the IP output
- Supports QPSK/QAM16/QAM64
- The ability to set the frequency of the output IF signal in the range of 36-850 MHz

- All settings, including DVB-T/T2-mode switching and upgrading, are carried out via LAN (Ethernet 100)
- IP output can be used for IP streaming by UPD/RTP protocol, as well as for output or input TS monitoring at your PC
- Parameters indication on the LCD
- Quick replacement of the device in the system without stream rescan

Inputs/Outputs	
Input interface, connector	8×DVB-ASI, 8×BNC
Output interface, connector	2×DVB-ASI, 1×RF, 1×DVB-IP, 2×BNC, 1×F and 1×RJ-45 respectively
Output RF signal frequency range	36-850 MHz
Output RF signal level	0 dBuV, adjustment -10dBuV
Modulation parameters DVB-T	
Constellation	QPSK / QAM16 / QAM64
Guard interval	1/4 1/8 1/16 1/32
Forward Error Correction (FEC)	1/2 2/3 3/4 5/6 7/8
COFDM Mode	2k
Modulation parameters DVB-T2	
Constellation	QPSK / 16QAM / 64QAM / 256QAM
Modulation Error Rate (MER)	>42 dB @ 500 MHz
Forward Error Correction (FEC)	1/2 3/5 2/3 3/4 4/5 5/6
Constellation rotate	Embedded, Disable

Pilot S	PP2, PP3, PP8
Guard interval	1/4 19/128 1/8 19/256 1/16 1/32 1/128
Bandwidth	1.7, 5, 6, 7 and 8 MHz
COFDM Mode	1k, 2k, 4k, 8k, 8k ext., 16k, 16k ext.
IP stream	
IP	RTP, UDP protocol support
IP address format	Multicast, unicast
TS bit rate	0.5...60 Mbps
TS packet format	188 Byte
Power Supply	
Power	~220V+-20%
Power Consumption	Max 20 W
Others	
Size	19", 1U transport mode: 440×49×243 (mm) operating mode: 483×49×243 (mm)
Weight	3.25 Kg