SPACE TECHNOLOGY

New technologies. New benefits.

Triax TDmH headend

TRIAX

Triax TDmH - The future of TV distribution.

Built on the same cutting-edge and well-tested software platform used for TDcH, to meet specific customer requests. The complimentary updated software offers both new and existing customers a range of additional functions and benefits, along with powerful hardware configurations that can be tailored to meet their specific requirements.

The TDmH includes popular functions from the current TDX headend, such as Multiplexing via Service Pool technology, PID and EPG management, and new features like an integrated SCR multiswitch and multiple language service function. The enhanced functionality ensures that customers have access to state-of-the-art technology, enabling them to deliver high-quality, customizable services.

DVB-T | DVB-S | DVB-C | IP in | IP out | Warranty 5 Years | ECO | Built-in Media Player

Integrated SCR Multiswitch

- Increases the number of satellite positions that can be received in the TDcH/TDmH to 4 satellite positions.
- Increases the number of international TV services that can be distributed
- Save time, cost and space with less cabling and no need for an external multiswitch
- Reduced hardware for a cost optimised and compact solution.

Compact Excellence

- Exquisite engineering, finely tuned for perfect performance
- Your natural choice for swift, efficient TV distribution
- Save time and costs, with fast, easy installation and remote management
- Fits elegantly into 19” racks
- Reliable, innovative headend expertise from TRIAX

	TDmH 8S-I Pro:Idiom (LG) ready Art. No.: 492775	TDmH 14STC-I Pro:Idiom (LG) ready Art. No.: 492776
INTERFACES		
Management Interface	1 x 1000 Base-T (RJ 45, Port 1)	
SimulCrypt / DRM	1 x 1000 Base-T (RJ 45, Port 2) not supported with current software release	
Ip-in and –out	1 x 1000 Base-T (SFP)	
CI Slots	4 x PCMCIA (front access)	
DVB-S2X input		
Satellite inputs	4 x F connectors, 75 Ω, 400 mA per input LNB power feed	
Number of transponders	8	
Frequency range	950 - 2150 MHz	
Level range	44 - 90 dBµV	
Return loss	>10 dB	
DVB-S modulation	QPSK; 8PSK (16APSK and 32APSK will be supported in later SW version)	
Max. data rate / tuner	83 Mbit/s	
Input selection	DiSEqC 1.0 Control 13/18VDC, 22kHz and SCR via JESS (EN 50607:2015)	
DVB-T/T2/C input		
Terrestrial / Cable input		1 x F connector, 75 Ω
Tuners		6
Input frequency range		47 – 862 MHz
Channel bandwidth		7/8 MHz
Level range		40 – 95 dBµV
Input noise		< 7 dB
Return loss		> 10 dB
DVB-T		
Demodulator type		COFDM
Modulation DVB-T		QPSK, 16QAM, 64QAM
DVB-T2		
Demodulator type		COFDM
Modulation DVB-T2		QPSK, 16QAM, 64QAM, 256QAM
DVB-C		
Demodulator type		QAM
Modulation		16QAM, 64QAM, 128QAM, 256QAM
IP-Input		
Number of IP input streams	4, 16 or 48 x SPTS/MPTS (license required)	
Data interface	1 x 1000 Base-T SFP or Fibre SFP ; 1000BaseX (SerDes) mode	
Protocols	IEEE802.3 Ethernet, IEEE802.1Q VLAN IGMPv2, IGMPv3 SPTS Streaming (VBR) including PAT, SDT, PMT, CAT and EIT MPTS Streaming (VBR) including PAT, SDT, PMT, CAT and EIT Multicast UDP and RTP MPEG Transport Stream via IP Protocol	
IP packet format	MPEG	
IP-Bitrate	max. 950 Mbit/s at SFP interface for all SPTS streams	
CI interfaces		
Bitrate	Configurable: 50, 72, 96Mbps	
PID and service limit	PID and service limit is given by the CAM	
Supply voltage	5V	

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RF output		
RF out	1 x F connector	
HF measuring output	1 x F connector, -20 dB	
Frequency range	306 – 862 MHz	
Channels	8 channels in a row, single channels can be switched off	
Return loss	> 10 dB	
Output impedance	75 Ω	
QAM modulation		
Output level range	85 – 95 dBµV	
Modulation scheme	QAM 16, 32, 64, 128, 256	
Dynamic phase error	< 0.3	
MER	> 43 dB	
Symbol rate	3.5 – 7.2 MS/s	
COFDM modulation		
Output level range	83 – 93 dBµV	
Carrier to spurious ratio	> 60 dB	
Modulation scheme	QPSK, 16 QAM, 64 QAM	
MER	>=40dB	
Output mode	2k	
Guard intervals	1/4, 1/8, 1/16, 1/32	
IPTV Output		
Number of IP output streams	48 x SPTS (license required)	
Data interface	1 x 1000 Base-T SFP or Fibre SFP ; 1000BaseX (SerDes) mode	
Protocols	IEEE802.3 Ethernet, IEEE802.1Q VLAN SPTS Streaming (VBR) including PAT, SDT, PMT, CAT and EIT Multicast UDP and RTP MPEG Transport Stream via IP Protocol 7 TS packets pr. Ethernet packet	
IP packet format	MPEG	
IP-Bitrate	max. 950 Mbit/s at SFP interface for all SPTS streams	
PID-Filtering and Remapping	Yes	
TTL	1-255 (default 16)	
EIT	Inside SPTS for current service	
XML EPG	EPG data in XML format as specified by Samsung Configurable language and Maturity Rating Country for XML EPG	
Scrambling		
VSecure (Philips) [Philips TV + special CAM]	License required 48 x	
Pro:Idiom (LG) [It required special hardware]	License required (future) 24 x	
LYNK (Samsung)	License required (future) 48 x	
Simulcrypt (128bit AES)	License required (future) 48 x	
Features		
SNMP	SNMP traps (license required)	
General		
Mains supply	100 - 264 V AC, 50/60 Hz	
Ground connection	Ground clamp	
Power consumption * Without CAM and LNB power	typ. *33 W, max. 73 W	typ. *40 W, max. 80 W
Ambient temperature	-10°C to +50°C	
Dimensions in mm	(W x D x H) 434 x 168 x 45	
Net Weight	3,0 kg	3,1 kg

Smooth integration

Triax TDmH headend

Compact excellence. Infinite opportunities.

TDmH offers a smooth integration:

- Optimised channel setup with advanced multiplexing and Service Pool technology
- Integrated SCR multiswitch for cost, time and space saving
- No need for retuning TV sets in rooms thanks to SID and PID Management
- EPG Management ensures full Electronic Program Information (EPG) for better user experience
- Central decryption with CI slots, Free-To-Air version available
- Support for LG and Philips Hospitality TV sets. Upcoming Support for Samsung Hospitality TV sets.
- Multiple language service allows for multiple distribution of a service with different audio (language) tracks
- IP-in and IP-out for receiving and streaming services. Possibility for simultaneous IP-in and IP-out through the same interface with optional VLAN tags for separating the in and out streams

Service Pool and Multiplex technology:

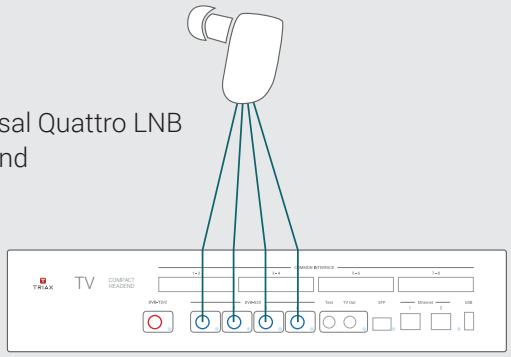
- 8 DVB-S/S2/S2X and 6 DVB-T/T2/C input signals
- 8 QAM or COFDM full band modulators (switchable)
- 48 IP-in SPTS and MPTS UDP/RTP
- 48 IP-out SPTS UDP/RTP (24 Scrambled and 24 Free to Air Services)
- 4 x CI interfaces for CAM
- Multiplexing at both RF output, IP output, scrambler and CAM (CI interface)
- Optimised service line-up within the available input and output modules
- More relevant TV services due to service multiplexing

Energy saving – long-term reliability:

- Low power consumption
- Temperature controlled cooling system with integrated fans - increases the service life of the equipment
- The cooling system supports 19“ rack mounting as well as wall mounting

Classic setup
with multiple cables

Universal Quattro LNB
Headend



– VS –

TRIAX TDmH
with integrated SCR Multiswitch

SCR LNB
Compact Headend with
integrated SCR Multiswitch