connecting the future

TDcH Compact Headend 16S-I

Art. Number   492781

triax.com

TDcH Compact Headend with CI Interfaces

DVB-S and DVB-S2 conversion to QAM or COFDM (switchable) with the possibility to decrypt services centrally in the headend.

Built for both wall mounting and 19" racks and equipped with 4 DVB-S/S2 inputs, 16 DVB-S2X tuners, 16 QAM or COFDM (switchable) modulators and 8 CI slots.

The TDcH compact headend is optimised and engineered to meet specific TV distribution requirements in hospitality, multi-dwelling units and related sectors with an appealing, competitive cost per service ratio.

Our brand new, intuitive platform smoothly integrates easy installation, an elegant graphical user interface, central decryption, remote access, and straightforward TV service updates with LCN.

Features

- 4 x SAT IF inputs with integrated multiswitch
- 16 x DVB-S2 tuners
- 8 x CI interfaces
- 16 x QAM or COFDM full band modulators
    - Electronically adjustable output level
    - Suitable for adjacent channels
    - Symbol rates and modulation individually adjustable
- Multiplexing & IP pool
    - TV-Service Multiplexing from all inputs at each output transponder to optimize available bandwidth
    - TV-Service Multiplexing at the CA-modules to reduce amount of CAM's
- Integrated Satellite Channel Router (SCR) multiswitch*
    - Reception of up to 4 satellite positions with each 2 polarizations and 2 frequency bands
- Transport Stream Processing
    - Network Information Table (NIT) for complete headend station
    - LCN (Logical Channel Numbering)
- SID, TSID and ONID management
    - To handle conflicts during multiplexing
    - To handle changes if required
- PID management
    - To handle PID conflicts
    - PID filtering to reduce audio channels from a TV service
    - Distribute TV services multiple times with different languages
    - In case of service changes to secure no new TV channel tune
- EPG management
    - To manage the amount of EPG-data distributed in an output transponder
    - To support TVs with EPG data from all TV services without the need of retuning all transponders
- Service Filtering with the option for
    - Remove unwanted services
    - Remove services for minimize data rate-
- Real time output load measurement
- Dashboard
    - System information and overview without login
- HTML user interface via self-signed HTTPS

Technical Specifications

ORDER INFORMATION

EAN Number	5702664927819

Technical Specifications

CHARACTERISTICS

Cable - symbol rate | Mbit/s	3.5...7.2 Mbit/s
Supported CAM Vendors	Aston, Neotion, SMARDTV, SMiT
Demodulator Symbolrate | Msym/s	1...45 Msym/s
Demodulator Type	DVB-S2X
Demodulator Viterbi Decoder	1/2; 2/3; 3/4; 5/6; 7/8; automatically / manually
DiSEqC level	1.0
DVB-S2 Modes (8PSK)	3/5, 2/3, 3/4, 5/6, 8/9, 9/10
DVB-S2 Modes (QPSK)	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
DVB-S Modes (QPSK)	1/2, 2/3, 3/4, 5/6, 7/8
Input level | dBμV	44...90 dBμV
LNB band selection	DiSEqC 1.0 Control 13/18VDC and 22kHz
LNB current max. | mA	400 mA
LNB LO/HI programmable | kHz	22 kHz
Max. Output level | dBμV	QAM 95 / COFDM 93 dBμV
MER | dB	QAM>43 / COFDM>40 dB
Modulation scheme	QAM 16, 32, 64, 128, 256
Output channel	S 21 – C 69
Output level | dBμV	QAM 85...95 / COFDM 83...93 dBμV
Output level adjustment | dB	10 dB
Output Level System | dBμV	QAM 95 / COFDM 93 dBμV
Output QAM Modes	16, 32, 64, 128, 256
Output symbol rate | Mbit/s	3,5...7,2 Mbit/s
Output Type	QAM/COFDM
Satellite - demodulation	QPSK; 8PSK
Satellite transponders	16
Spurious Signals | dB	> 60dB dB
Supported modules and cards	Conax: Canal Digital (Nordic), Telewizja (PL), T Home (HU) Cryptoworks: ORF (AT), UPC Direct (HU) Irdeto: ORF (AT)
Symbol rate DVB-S2 (8PSK) | Mbit/s	4.5...45 Mbit/s
Symbol rate DVB-S2 (QPSK) | Mbit/s	4.5...45 Mbit/s
Symbol rate DVB-S (QPSK) | Mbit/s	1...45 Mbit/s
Test Point | dB	-20 dB
Transport stream	chip set prepared but not supported with SW1.0
LNB V/H programmable | V/mA	13/18 V/mA
Viterbi decoder	1/2; 2/3; 3/4; 5/6; 7/8; automatically / manually

FREQUENCY RANGE

Channel Raster | MHz	8 MHz
Channels	S 21 – C 69

Technical Specifications

Input frequency range | MHz	950...2150 MHz
Number of channels	16 channels in a row, single channel can be switched off
Output frequency range | MHz	306...862 MHz
Satellite - frequency range | MHz	950...2150 MHz
RETURN LOSS	
Output Return Loss | dB	>10 dB
Return loss SAT inputs | dB	> 10 dB
Return loss (RF OUT) | dB	> 10 dB
ELECTRICAL	
Number of RF outputs	1
OPERATIONAL	
CI slots	8 x PCMCIA (front access)
Data rate	83 Mbit/s
DC Supply Voltage | VDC	5 VDC
Ethernet Interface	2 x 1000 Base-T (RJ 45)
CONNECTORS	
Connector - SFP cage	1 x 1000 Base-T (SFP)
Connector IN	F-female
Connector SAT	4 x F connector, 75 Ohm, 400 mA per input LNB power feed
Connector USB	USB 2.0, Type A con (Data transfer, additional storage, …)
External RF OUT	1 x F connector 75 Ohm
Input Type	SAT-IF
Output connectors	1 x F connector 75 Ohm
Output connectors (for RF)	1 x F connector, 75 Ohm
Output connector	F connector
Connector SAT-IF	4 x F connector, 75 Ohm, 400 mA per input LNB power feed
SFP cage	1 x 1000 Base-T (SFP)
USB port	USB 2.0, Type A con
MECHANICAL	
Clips/Grounding strap	Ground clamp
Packaging Depth | m	0.255 m
Packaging Height | m	0.120 m
Total Weight | kg	5.100 kg
Packaging Width | m	0.495 m
Net Weight | kg	4.130 kg
19" Rack mount | HE,U	2 HE,U
Tara Weight | kg	0.970 kg
Packaging Volume | m3	0.015 m3

triax.com