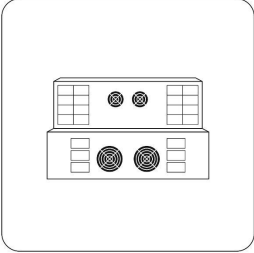




## N. Digital Headend

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|--|---|
| <b>HEADENDS</b>  | <b>Digital Headends Category Index</b>  |
|  | <p>N. Digital Headends (Signal Processing)</p> <ul style="list-style-type: none"> <li>n.1 TDX</li> <li>n.2 TDH800</li> <li>n.3 Panaccess</li> <li>n.4 Cat TV</li> <li>n.5 DRM Servers</li> <li>n.6 Rack Mounting</li> </ul> |
| <b>Remarks:</b> Page 1 of 11   |   |





## n.1 TDX

|  |  |                     |
|--|--|---------------------|
| <b>492006</b>  | <b>TDX Redundant Power Supply Unit</b>   | <b>Brand:</b> Triax |
|  | <p>The TDX Redundant power supply provides you with a high degree of power assurance in connection with your TDX headend system.</p> <p>The redundant power supply uses two identical power supply units mounted in a mechanical frame. Only one of the two units will be active at all times supplying power. If one power supply unit breaks down the other unit instantly takes over and thereby prevents an interruption of the supply of power.</p> |                     |


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| <b>492091</b>  | <b>TDX Black Edition</b>   | <b>Brand:</b> Triax |
|  | <p>TRIAx Black Edition</p> <p>is the ultimate choice when delivering reliable solutions to the hospitality sector. Our solutions fully support upgrades and new installations.</p> <p>The TDX Black Edition cabinet is designed with up to 16 input modules and 6 Quad output modules; it is extremely compact and can therefore be easily installed on a wall or in a 19" rack. Whether it is related to the installation, maintenance or repair, all inputs, outputs and cables can be easily installed and operated from the front of the cabinet.</p> <p>Up to three TDX Black Edition Headends can be combined as one system of input and output signals, as such up to 72 PAL, COFDM or QAM channels are possible (or 480 IP services). The new HTML5 user interface guarantees easy installation, remote control and system monitoring via SNMP.</p> <p>DRM integration for secure HD-service distribution is supported and can be easily handled with the Simulcrypt interface.</p> <p>With the PID-management the TDX Black Edition supports services changes without any retuning of TV's.</p> |                     |
| <b>Size:</b> 290x240x440mm   |  | <b>Remarks:</b> New |







|   |   |
|---|---|
| <b>TDXCARDS</b>   | <b>TDX Cards Sub Category Index</b>   |
|  | <ul style="list-style-type: none"> <li>n.1 TDX Cards             <ul style="list-style-type: none"> <li>n.1.1 Front End Cards</li> <li>n.1.2 Back End Cards</li> <li>n.1.3 IPTV</li> <li>n.1.4 Parts</li> </ul> </li> </ul> |
| <b>Remarks:</b> Pages 1 of 5  |   |

## n.1.1 Front End Cards

|   |   |                            |
|---|---|----------------------------|
| <p><b>492020</b></p>    | <p><b>TDX Frontend DVB-S</b></p> <p>DVB-S/S2 input module - QPSK and 8PSK demodulator. The DVB-S module is able to receive a complete transponder. All services on the chosen frequency will be transferred to the TDX pool. Input frequency: 950-2150. Supports DiSEqC 1.1</p> <p>Demodulator Type: QPSK/8PSK<br/>         DiSEqC level: 1.1<br/>         LNB LO/HI programmable: 0/22 kHz<br/>         LNB V/H programmable: 0...13...18/300 V/mA<br/>         Input level: 55...75 dBµV</p> <p><b>Size:</b> 29 x 132 x 50 mm</p>   | <p><b>Brand:</b> Triax</p> |
| <p><b>492023</b></p>    | <p><b>TDX Front END DVB-T/T2</b></p> <p>DVB-T2 input module, The DVB-T/T2 module is able to receive a complete transponder. All services on the chosen frequency will be transferred to the TDX pool. Input frequency: 177, 5 - 226,5 / 474-862.</p> <p>COFDM demodulator<br/>         Demodulator/Mode: 16QAM, 64QAM / 2k and 8k.<br/>         Input Level 45...75 dBµV</p> <p><b>Size:</b> 29 x 132 x 50 mm</p>   | <p><b>Brand:</b> Triax</p> |
| <p><b>492030</b></p>   | <p><b>TDX Frontend HDMI</b></p> <p>The HDMI encoder module converts digital audio and video signals from a set top box, a DVD player, a camera, laptop or other sources, into a MPEG data stream. This HDMI data stream is then available in the TDX pool and can be sent out on all TDX output modules.</p> <p>Audio embedded: AAC, 48 kHz/MPEG-2(L1)<br/>         Output Type: MPEG (Serial) transport stream (LVDS)<br/>         Output Video Codec: MPEG-2/MPEG-4<br/>         Output Video Codec Settings (CBR): 3...11 @ 1 Mbps<br/>         Input video standards: 480i30; 480p60; 576i25; 576p50; 720p50/60; 1080p25/30; 1080i25/30</p> <p><b>Size:</b> 29 x 126 x 53 mm</p>  | <p><b>Brand:</b> Triax</p> |
| <p><b>492080</b></p>  | <p><b>TDX AV Input Module 1 Channel</b></p> <p>AV encoder module. The encoder cassette converts analogue video and audio signals into a MPEG2 or MPEG4 data stream. This data stream is then available in the TDX pool and can be sent out on all TDX output modules. Teletext and WSS signaling in the analog signal are also converted into the MPEG2/4 stream.</p> <p>Audio embedded; AAC, 48 kHz/MPEG-2(L1), Stereo<br/>         Output Type: MPEG (Serial) transport stream (LVDS)<br/>         Output Video Codec: MPEG-2/MPEG-4<br/>         Output Video Codec Settings (CBR): 1, 2.5, 5, 10 Mbps<br/>         Scan Resolution: 525, 625 Pixel</p> <p><b>Size:</b> 29 x 126 x 53 mm      <b>Remarks:</b> Requires D-sub Cable</p> | <p><b>Brand:</b> Triax</p> |

### n.1.2 Back End Cards


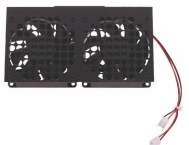
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| <p><b>492050</b></p>  | <p><b>TDX PAL Backend FTA</b></p> <p>TDX backend PAL output module [DVB-S/S2] - Quad FTA. Any of the services coming from the TDX Pool can be modulated to an analogue PAL signal. It is possible to send out 24 PAL services/TV programs from one cabinet. Each of the output modules can be delivered with 2 CI-slots. Full band modulator.</p> <p>VSB - VHF/UHF, mono, A2, Nicam</p> <p><b>Size:</b> 17 x 162 x 185 mm</p> | <p><b>Brand:</b> Triax</p> |
|--|---|----------------------------|

| Satellite Reception   Terrestrial Reception   IPTV   Dishes   Amplifiers   Receivers   Headends   Antennas |   |                     |
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| 492051   | <b>TDX Backend PAL CI</b>   | <b>Brand:</b> Triax |
|                           | <p>PAL output module [DVB-S/S2] - Quad CI. Any of the services coming from the TDX Pool can be modulated to an analogue PAL signal. It is possible to send out 24 PAL services/TV programs from one cabinet. Each of the output modules can be delivered with 2 CI-slots.Full band modulator.</p> <p>VSB VHF/UHF mono, A2, Nicam</p> <p><b>Size:</b> 17 x 162 x 185 mm</p>  |                     |
| 492052   | <b>TDX Back end PAL Down Scale Card</b>   | <b>Brand:</b> Triax |
|                           | <p>The TDX quad PAL HD downscale module can take any HD service from the pool, scale the service down to SD format, modulate it in to a PAL signal and distribute it in a PAL services / TV programs from each module equal to 24 PAL services from one cabinet.</p> <p>VSB VHF/UHF mono, A2, Nicam</p> <p><b>Size:</b> 17 x 162 x 185 mm</p>   |                     |
| 492056   | <b>Back End QAM CI Module</b>   | <b>Brand:</b> Triax |
|                           | <p>QAM Quad output module. It is possible to create your own bouquets of services/TV programs, available in the TDX Pool, and put them together in a QAM data stream. Depending on the bandwidth of each service it is possible to mix all the services and use the total bandwidth in an optimal way.</p> <p><b>Size:</b> 17 x 162 x 185 mm      <b>Remarks:</b> Indent</p>  |                     |
| 492061   | <b>TDX Backend COFDM with CI</b>  | <b>Brand:</b> Triax |
|                          | <p>TDX Backend - COFDM quad output module It is possible to create your own bouquets of services/TV programs, available in the TDX Pool, and put them together in a COFDM data stream. Depending on the bandwidth of each service it is possible to mix all the services and use the total bandwidth in an optimal way.</p> <p>2 x CI Slots -Suitable for 2 Sky CAMS</p> <p><b>Size:</b> 17 x 162 x 185 mm</p>  |                     |
| 492070   | <b>TDX Backend Twin CI Module</b>   | <b>Brand:</b> Triax |
|                          | <p>The 2 x CI backend module enables you to take several services depending on CAM module from the TDX pool, decrypt them and loop them back in decrypted form to the pool.</p> <p>2xCI = 2 Sky Cam Modules</p> <p><b>Size:</b> 17 x 162 x 185 mm</p>   |                     |
| 492072   | <b>TDX Back End IP Card</b>   | <b>Brand:</b> Triax |
|                          | <p>The IP output module is an output module for transmission of digital video, audio and miscellaneous data, encapsulated within one or more MPEG2/DVB single program transport streams.</p> <p>The TDX headend system provides the following functionality when the IP out module has been installed:</p> <ul style="list-style-type: none"> <li>IP multicast streaming (UDP streaming)</li> <li>RTP option</li> <li>IGMP version 2</li> <li>SPTS including SDT, PAT, PMT, CAT</li> <li>Packet ratio of 3-7 TS packet per IP packet ratio 3-7:1</li> <li>Max. BW 720 Mbits/s output per IP output module</li> <li>96 services per IP output module/AUX socket</li> <li>Possible to change service ID (SID)</li> <li>Possible to select from IP via Link</li> <li>2 x CI slots complying EN 50 221</li> </ul> <p><b>Size:</b> 17 x 162 x 185 mm</p> |                     |

### n.1.3 IPTV


|  |  |                            |
|--|--|----------------------------|
| <p><b>418040</b></p>    | <p><b>TDX IPTV-out 12 service - Start</b></p> <p>IP output SFP. When the incoming signals are distributed in the IP format, you will need a copper or fibre SFP (RJ45) and additional SW. The start package (item no. 418040) for IP is for 12 IP services</p> <p><b>Brand:</b> Triax</p> <p><b>Remarks:</b> Software Licience</p>   | <p><b>Brand:</b> Triax</p> |
| <p><b>418041</b></p>    | <p><b>TDX IPTV-out 12 service - Expand</b></p> <p>IP output SFP. When the incoming signals are distributed in the IP format, you will need a copper or fibre SFP (RJ45) and additional SW. The start package is for 12 IP services, and for additional services the IPTV expand software (item no. 418041) is supplied in packages for 12 services</p> <p><b>Brand:</b> Triax</p> <p><b>Remarks:</b> Software Licience</p>   | <p><b>Brand:</b> Triax</p> |
| <p><b>418042</b></p>    | <p><b>4 IPTV OUT Starter Pack</b></p> <p><b>Brand:</b> Triax</p>   | <p><b>Brand:</b> Triax</p> |
| <p><b>418043</b></p>   | <p><b>TDX IPTV-out 4 service - Expand</b></p> <p>When the incoming signals are distributed in the IP format, you will need a copper or fibre SFP (RJ45) and additional SW. The add-on package (item no. 418043) for IP is for 4 Extra IP services.</p> <p><b>Brand:</b> Triax</p> <p><b>Remarks:</b> Software Licience</p>   | <p><b>Brand:</b> Triax</p> |
| <p><b>418047</b></p>  | <p><b>TDX IPTV-in 4 service - Start</b></p> <p>IP-in 4 IP services – Start pack</p> <p>When the incoming signals are in the IP format, you will need a RJ45 or fibre SFP and additional software licenses, to receive the IP Services. This start package is for 4 IP-in services.</p> <p><b>Brand:</b> Triax</p> <p><b>Remarks:</b> Software Licience</p>   | <p><b>Brand:</b> Triax</p> |
| <p><b>418048</b></p>  | <p><b>TDX IPTV-in 4 service - Expand</b></p> <p>IP-in 4 IP services – Extension pack - 418048</p> <p>For additional IP-in services an IPTV-in extension pack of 4 extra licensees can be ordered.</p> <p><b>Brand:</b> Triax</p> <p><b>Remarks:</b> Software Licience</p>  | <p><b>Brand:</b> Triax</p> |
| <p><b>492086</b></p>   | <p><b>SFP RJ45 EOLT -C12-02</b></p> <p>SFP (Small Form - Factor Pluggable). It is possible to create your own bouquets of services/TV programs, available in the TDX Pool, and put them together in an IP data stream.</p> <p>Features:</p> <ul style="list-style-type: none"> <li>Support 1000BASE-T operation in host systems with SGMII interface</li> <li>Up to 1.25Gbps bi-direction data links</li> <li>Hot-pluggable SFP footprint</li> <li>Fully metallic enclosure for low EMI</li> <li>Low power dissipation (1.05 W typical)</li> <li>Compact RJ-45 connector assembly</li> <li>100m transmission over unshielded twisted pair (UTP) Category 5 Cable</li> </ul> <p><b>Brand:</b> Triax</p> | <p><b>Brand:</b> Triax</p> |


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| <p><b>492087</b></p>     | <p><b>SPF Fibre 850nm EOLS-8512MXX</b></p> <p>IP output via fibre. It is possible to create your own bouquets of services/TV programs, available in the TDX Pool, and put them together in an IP data stream. You can use fibre cable to transmit your IP stream. Fibre LC - 850 nm. Gigabit Ethernet.</p> <p>Features:</p> <ul style="list-style-type: none"> <li>Operating data rate up to 1.25Gbps</li> <li>850nm VCSEL Laser Transmitter</li> <li>550m with 50/125 MMF, 300m on 62.5/125 MMF</li> <li>Duplex LC Connector Interface</li> <li>Hot Pluggable</li> <li>Compliant with MSA SFP Specification</li> <li>Digital diagnostic monitor interface</li> <li>Compatible with SFF-8472</li> </ul> <p><b>Remarks:</b> Fibre LC - 850 nm</p> | <p><b>Brand:</b> Triax</p> |
| <p><b>492088</b></p>     | <p><b>Triax SFP Fibre 1310nm</b></p> <p>IP output SFP via fibre. It is possible to create your own bouquets of services/TV programs, available in the TDX Pool, and put them together in an IP data stream. You can use fibre to transmit your IP stream. Fibre LC - 1310 nm. Gigabit Ethernet.</p> <p>Features:</p> <ul style="list-style-type: none"> <li>Operating data rate up to 1.25Gbps</li> <li>1310nm VCSEL Laser Transmitter</li> <li>2000m with on 62.5/125 MMF</li> <li>Duplex LC Connector Interface</li> <li>Hot Pluggable</li> <li>Compliant with MSA SFP Specification</li> <li>Compatible with SFF-8472</li> </ul> <p><b>Remarks:</b> Fibre LC - 1310 nm</p>  | <p><b>Brand:</b> Triax</p> |
| <p><b>492095</b></p>   | <p><b>IPTV EPG Server</b></p> <p>The IPTV EPG Server provides EPG data to IP-set top boxes, IP-televisions and middleware solutions, e.g. the EPG server extracts data from DVB-S and DVB-T front end modules enabling it to populate the EPG Guides on hotel IPTV displays.</p> <p><b>Size:</b> 8 x 29 x 52 mm</p> <p><b>Remarks:</b> IPTV</p>  | <p><b>Brand:</b> Triax</p> |
| <p><b>n.1.4 Parts</b></p>  |  |                            |
| <p><b>300745</b></p>  | <p><b>Decoder Cable Sub-D to Phono</b></p> <p>Triax AV cable - 1.50 m. 15 pol D-sub connector - 3 x RCA Phono connector.</p>   | <p><b>Brand:</b> Triax</p> |
| <p><b>490139</b></p>  | <p><b>TDX Key and Screw Kit</b></p> <p>Pack Containing TDX Screws and Key</p>  | <p><b>Brand:</b> Triax</p> |
| <p><b>492000</b></p>   | <p><b>TDX Controller Module</b></p> <p>Replacement TDX Main Board / Control Board</p>  | <p><b>Brand:</b> Triax</p> |


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| <p><b>492005</b></p>  | <p><b>TDX Power Supply Module</b></p> <p>Replacement Power Supply for TDX</p> <p>Total Weight 0,905 kg</p> | <p><b>Brand:</b> Triax</p> |
| <p><b>775276</b></p>  | <p><b>TDX Fan Unit</b></p> <p>TDX fan kit 80 x 80 x 25 mm KDE1208P</p> <p>Total Weight 0,250 kg</p>        | <p><b>Brand:</b> Triax</p> |

Remarks: TDX Parts





## n.2 TDH800

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| <p><b>692890</b></p>  | <p><b>Triax TDH 800 Main Cabinet</b></p> <p>TDH 800. Technology, that can do more.</p> <p>The cabinet is designed as one system of input and output signals, as such over 100 Digital Channels are possible, it is extremely compact and can therefore be easily installed on a wall or in a 19 "rack. Whether it is related to the installation, maintenance or repair all inputs, outputs and cables can be easily installed and operated from the front of the TDH 800.</p> <p>TDH 800 output amplifier can be software-adjusted within the range 85 dBµV through 93 dBµV.</p> <p>Specifications</p> <p>Can output Digital and Analogue at the same time: YES</p> <p>Output level max. 93 dBµV (105dBµV Analogue)</p> <p>Test point -20 dB</p> <p>Frequency range (RF OUT) 47-862 MHz</p> <p>AC Supply voltage 90-260 (50/60 HZ IEC320 1.8m cable) VAC</p> <p>Power Consumption (typ.) 280 (min 20) W</p> <p>Temperature - operating -10 to +50 °C</p> <p>External RF OUT F-connector</p> <p>PC interface RJ 45: HTML5</p> <p>POOL Technology YES</p> <p><b>Size:</b> HDW 265 x 240 x 440</p> | <p><b>Brand:</b> Triax</p> <p>Remarks: Sky CAM Module Approved</p> |
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| <p><b>692895</b></p>  | <p><b>TDH800 Sky 10-12 Channel Pack 6xCAM Slots, 8 DVBS</b></p> <p>TDH800 Special Sky Package,<br/>Contains:</p> <p>1 X TDH800 Main Unit with pre installed cards;</p> <p>8 x DVB S/S2 Cards (692820)</p> <p>1 x COFDM Back END with 2xCI (692861)</p> <p>2 x CI only Back END = 4xCI (692870)</p> <p>This System can take 6 Sky Cams straight out of the box, so it can distribute 12 Channels of Sky TV.</p> <p>The System can be easily upgraded to a total of 24 Sky Channels from the one Main Unit. (Extra Cards Required)</p> <p>By adding some extra cards you can also add Freeview Satellite or Freeview HD to make a complete system.</p> | <p><b>Brand:</b> Triax</p> |
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|---|---|------------------------------|
| <p><b>TDH800CARDS</b></p>  | <p><b>TDH800 Cards Sub Category Index</b></p> <p>n.2 TDH800 Cards</p> <p>n.2.1 Front End Cards</p> <p>n.2.2 Back End Cards</p> <p>n.2.3 Parts</p> | <p>Remarks: Pages 1 of 3</p> |
|---|---|------------------------------|

### n.2.1 Front End Cards

|   |  |                            |
|---|--|----------------------------|
| <p><b>692820</b></p>    | <p><b>TDH 811 Frontend - DVB-S/S2 [QPSK/8PSK]</b></p> <p>The DVB-S/S2 frontend module is an input module for the reception of digital satellite signals in a TDH 800 headend system. The module can receive a complete transponder and all services on the chosen frequency can be transferred to the TDH 800 pool. The DVB-S/S2 frontend module includes an IF tuner with antenna loop through and a QPSK/8PSK demodulator with serial transport stream input to the TDH 800 headend system.</p> <p>Features:</p> <ul style="list-style-type: none"> <li>Preconfiguration from/to file through system controller module.</li> <li>Log to file/flash.</li> <li>DVB-S compliant, up to 45 MS/s.</li> <li>DVB-S2 compliant, up to 37 MS/s.</li> <li>Programmable LNB control: 0/14/18V - 0/22kHz.</li> <li>All services will be transferred to the TDH 800 pool.</li> <li>DiSEqC compliant (1.0)</li> </ul> <p><b>Size:</b> 32 x 132 x 50 mm</p> | <p><b>Brand:</b> Triax</p> |
| <p><b>692823</b></p>   | <p><b>TDH 813 Frontend - DVB-T/T2 [COFDM]</b></p> <p>The DVB-T/T2 frontend module is an input module for the reception of both T and T2 digital terrestrial signals. The module can receive a complete terrestrial MUX and send all services in the MUX to the TDH 800 pool. The DVB-T/T2 frontend module includes a tuner, with integrated gain control and channel filtering, and a COFDM demodulator with serial transport stream input to the TDH 800 system.</p> <p>Features:</p> <ul style="list-style-type: none"> <li>Reception of HD and SD services</li> <li>Software downloading through TDH 800 system controller module</li> <li>Preconfiguration from/to file through system controller module</li> <li>Log to file/flash</li> <li>All services will be transferred to the TDH 800 pool</li> </ul> <p><b>Size:</b> 29 x 132 x 50 mm</p>  | <p><b>Brand:</b> Triax</p> |
| <p><b>692830</b></p>  | <p><b>TDH 815 HDMI Frontend</b></p> <p>The HDMI module converts digital audio and video signals from a set top box, a DVD player, a camera, laptop or other sources, into a MPEG data stream.</p> <p>Audio embedded: AAC, 48 kHz/MPEG-2(L1), Stereo or AC3 pass through<br/> Output Type: MPEG (Serial) transport stream (LVDS)<br/> Output Video Codec: MPEG-2, MPEG-4<br/> Output Video Codec Settings (CBR): 3...11 Mbps</p> <p><b>Size:</b> 29 x 126 x 53 mm</p>   | <p><b>Brand:</b> Triax</p> |
| <p><b>692880</b></p>  | <p><b>TDH 814 Frontend AV Encoder Module</b></p> <p>The AV encoder module converts analog video (CVBS) and audio signals from a set top box, a DVD player, a camera or other sources, into a MPEG2 or MPEG4 data stream. This data stream is then available in the TDH 800 pool and can be sent out on all TDH 800 output modules.</p> <p>Audio embedded: AAC, 48 kHz/MPEG-2(L1), Stereo<br/> Output Video Codec: MPEG-2, MPEG-4<br/> Scan Resolution: 525, 625 Pixel<br/> Connector Type: 15pol Sub-D</p> <p><b>Size:</b> 29 x 126 x 53 mm      <b>Remarks:</b> Requires D-Sub Cable</p>  | <p><b>Brand:</b> Triax</p> |

### n.2.2 Back End Cards

| Satellite Reception   Terrestrial Reception   IPTV   Dishes   Amplifiers   Receivers   Headends   Antennas |   |   |
|--|---|---|
| <p><b>692850</b></p>       | <p><b>TDH 841 Backend - PAL</b></p> <p>The TDH 800 quad PAL backend is an output module that enables you to distribute up to 4 services/TV programs available in the TDH 800 pool. The TV programs are chosen from the TDH 800 service tool.</p> <p>Output Audio S/N Ratio 50 dB<br/>           Output level adjustment +3...-17 dB<br/>           Output Level System 93.0 dBμV<br/>           Output Video S/N Ratio 54 dB<br/>           Picture carrier stability &lt; ±30 kHz</p> <p><b>Size:</b> 12 x 162 x 180 mm</p>  | <p><b>Brand:</b> Triax</p> <p><b>End of Line:</b> <input checked="" type="checkbox"/></p> |
| <p><b>692851</b></p>       | <p><b>TDH 842 Backend - PAL - 2CI</b></p> <p>Quad PAL backend module - with 2 x CI slots. The TDH 800 quad PAL backend is an output module that enables you to distribute up to 4 services/TV programs available in the TDH 800 pool. The TV programs are chosen from the TDH 800 service tool. The PAL output module is delivered with 2 CI slots for decryption</p> <p>Output Audio S/N Ratio 50 dB<br/>           Output level adjustment +3...-17 dB<br/>           Output Level System 93.0 dBμV<br/>           Output Video S/N Ratio 54 dB<br/>           Picture carrier stability &lt; ±30 kHz</p> <p><b>Size:</b> 21 x 162 x 180 mm</p>   | <p><b>Brand:</b> Triax</p> <p><b>End of Line:</b> <input checked="" type="checkbox"/></p> |
| <p><b>692860</b></p>      | <p><b>TDH800 Backend COFDM Card no CI</b></p> <p>Quad COFDM backend modules - DVB-T in FTA. The TDH 800 quad COFDM backend module is an output module that enables you to create up to 4 muxes of services / TV programs which are available from the TDH 800 pool. The services are distributed in a COFDM data stream. The COFDM output modules is delivered in a free-to-air version.</p> <p>MER: 35.0 dB<br/>           Output level adjustment: +3...-17 dB<br/>           Output Level System: 90.0 ± 1.5 dBμV<br/>           Output QAM Modes: 16QAM, 64QAM, QPSK</p> <p><b>Size:</b> 17 x 162 x 182 mm</p>  | <p><b>Brand:</b> Triax</p>  |
| <p><b>692861</b></p>     | <p><b>TDH 844 Backend - COFDM -2CI</b></p> <p>Quad COFDM backend module - with 2 x CI slots. The TDH 800 quad COFDM backend module is an output module that enables you to create up to 4 muxes of services / TV programs which are available from the TDH 800 pool. The services are distributed in a COFDM data stream.</p> <p>Carrier supported: 2K<br/>           Guard Interval: 1/32, 1/16, 1/8, 1/4<br/>           MER: 35.0 dB<br/>           Output level adjustment: +3...-17 dB<br/>           Output Level System: 90.0 ± 1.5 dBμV<br/>           Output QAM Modes: 16QAM, 64QAM, QPSK<br/>           Output spectrum: Normal<br/>           Spurious Signals: &gt; 60 dB</p> <p><b>Size:</b> 24 x 162 x 182 mm</p> | <p><b>Brand:</b> Triax</p>  |
| <p><b>692870</b></p>     | <p><b>TDH 847 2CI Backend</b></p> <p>The 2 x CI backend module enables you to take several services depending on CAM module from the IP pool, decrypt them and loop them back in decrypted form to the pool.</p> <p><b>Size:</b> 24 x 162 x 185 mm</p>  | <p><b>Brand:</b> Triax</p>  |

### n.3 Panaccess



|        |                               |  |                            |
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| 305501 | Pan Access CAS 19" Rack Mount | <p>Conditional Access System for Hospitality Solutions. Support of QAM, COFDM or IP distribution inclusive hardware and for maximal 500 rooms.</p> <p>The CAS Hospitality is a Conditional Access Solution for digital TV headends and runs DVB/IP CAS software. Installation, operation and maintenance are very easy and do not need intervention of experts. The CAS Hospitality Solution (Product) is optimized for the requirements of hotels and hospitals. Every headend becomes a secure and state-of-the-art digital TV platform with highend digital rights management and access restriction.</p> <p>Features:</p> <ul style="list-style-type: none"> <li>Supports room management for 500 rooms max</li> <li>Room Messages (On-screen messages)</li> <li>High-end conditional access system (CAS)</li> <li>Compatible with QAM, COFDM and IP</li> <li>Data stored at a secure Triax Database (No backup necessary)</li> <li>Controlled by CAS Management Software or network based interface</li> <li>Pay per channel, TV client, provisioning, etc.</li> <li>Any client device: TV with CI interface or Set Top Box</li> <li>Smartcard or cradles licenses possible</li> <li>Hospitality &amp; Hotel Chains management (on demand). Master account for managing thousands of hotels uniformly</li> <li>Easy to use reception mode</li> <li>Easy integration into your PMS system (on demand)</li> </ul> | <p><b>Brand:</b> Triax</p> |
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| 305510 | Panaccess Scrambler CI unit | <p>The form-factor of the common interface scrambler module by TRIAX transforms the TDX CI Interface to a professional CAS scrambler.</p> <p>Main Features:</p> <ul style="list-style-type: none"> <li>Common interface compliant with DVB EN 50221</li> <li>Ethernet interface 10/100 Mbps</li> <li>DVB (De)-Multiplexer, compliant with ETSI EN 300 468</li> <li>DVB Common Scrambling compliant</li> <li>Individual scrambling of up to 72 Mbits/s</li> <li>Automatic configuration, i.e. automatic provisioning of access criteria</li> <li>Set-Top-Box firmware playout</li> <li>Transport stream monitoring and analysis</li> <li>Temperature monitoring</li> </ul> | <p><b>Brand:</b> Triax</p> |
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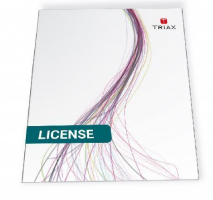
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| 305511 | Panaccess CI Module including embedded card | <p>CAM module with inbuilt CAS smartcard Chip.</p> <p>The CAS smartcard chip is based on a cryptocontroller of NXP.</p> <p>A set of cryptographic features makes this platform very flexible and secure.</p> <p>In case of compromise already included standby algorithms can be activated.</p> <p>Some characteristics:</p> <ul style="list-style-type: none"> <li>ECM/EMM envelope encryption</li> <li>Sophisticated key change mechanisms</li> <li>Key ageing preventing replay attacks</li> <li>Standby algorithms included</li> <li>Configurable multi-layer key hierarchy</li> <li>Multiple sectors, cryptographically independent</li> </ul> | <p><b>Brand:</b> Triax</p> |
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### n.4 Cat TV


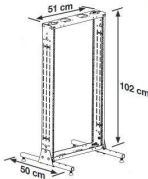


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| <p><b>350661</b></p>      | <p><b>NBL 0200 Cat TV Balun</b></p> <p>The balun (balanced - unbalanced) converts from catTV Panel transmitter via generic cabling symmetrical signal (100 ohms) to devices (eg TV and radio) coaxial signal (75 Ohm).<br/>The catTV balun is connected by patch cable to the RJ45 socket.<br/>Audio input signals via RJ 45<br/>Reconversion of 100 Ohm in 75 Ohm<br/>Amplification of the RF signal<br/>Assignment of the signals on the outputs<br/>Skew and attenuation of max. 50 dB to compensate<br/>Plug and Play, 3 switch positions for easy adaptation to different cable lengths</p>         | <p><b>Brand:</b> Triax</p> |
| <p><b>350663</b></p>      | <p><b>CATTV Panel NPN3412</b></p> <p>NPN and NPO catTV panels for televisions and radios at any point in the data network without additional installation of coaxial cable.<br/>Active Transfer box for distribution of CATV signals over a generic building wiring.<br/>The panel with electric NPN input (coaxial / 75 Ohm) converts the input signal to a balanced signal (sym./100 Ohm) to it intrude on the Patch (Patch Panel) of the building wiring to the subscriber line.<br/>Super low noise push-pull technology<br/>Level control + equalizer at the input<br/>Input test jack</p>          | <p><b>Brand:</b> Triax</p> |
| <p><b>947748001</b></p>  | <p><b>NBL 0265 Cat Tv Balun</b></p> <p>The balun (balanced - unbalanced) converts from catTV Panel transmitter via generic cabling symmetrical signal (100 ohms) to devices (eg TV and radio) coaxial signal (75 Ohm).<br/>The catTV balun is connected by patch cable to the RJ45 socket.<br/>Audio input signals via RJ 45<br/>Reconversion of 100 Ohm in 75 Ohm<br/>Amplification of the RF signal<br/>3 variants: without RK, RK 5-30 MHz, 5-65 MHz RK<br/>Skew and attenuation of max. 50 dB to compensate<br/>Plug and Play, 3 switch positions for easy adaptation to different cable lengths</p> | <p><b>Brand:</b> Triax</p> |

### n.5 DRM Servers

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| <p><b>418072</b></p>  | <p><b>TDX SimulCrypt 24 service</b></p> <p>With SimulCrypt the TDX gets the optional capability to do DVB content protection. The embedded scrambling doesn't require any additional scrambling hardware. Connected to a CAS server the TDX allows to freely select which services should be scrambled.</p> <p>TDX SimulCrypt for one digital backend with up to 24 services. The license can be used for the following modules:</p> <ul style="list-style-type: none"> <li>492055 TDX Backend - QAM</li> <li>492056 TDX Backend - QAM - 2CI</li> <li>492072 TDX Backend - IP - 2CI</li> <li>492060 TDX Backend - COFDM</li> <li>492061 TDX Backend - COFDM - 2CI</li> </ul> | <p><b>Brand:</b> Triax</p> <p><b>Remarks:</b> Service : POA</p> |
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| <p><b>418073</b></p>  | <p><b>TDX Samsung DRM backend license</b></p> <p>TDX Samsung DRM license<br/>The Samsung DRM license makes it possible to scramble IP and digital modulated services (QAM, COFDM) in the TDX with a scrambling code that Samsung hospitality TV's with integrated DRM function, can receive and de-crypt.</p> <p>This offers a cost effective solution to distribute premium content in a hotel network.<br/>The Samsung lynk or reach software is required to manage the scrambling, and runs on an external server.</p> <p><b>Remarks:</b> License</p> | <p><b>Brand:</b> Triax</p> |
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### n.6 Rack Mounting

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| <p><b>251496</b></p>    | <p><b>Shelf for 19" Rack</b></p> <p>Shelf for 19" Rack 1.5U</p> <p><b>Brand:</b> Triax</p>  |                            |
| <p><b>251513</b></p>   | <p><b>Triax 19" Rack</b></p> <p>Triax mounting frame TMF 512<br/>With the new open 19" mounting frame Triax offers you a quite new and functional mounting solution for your headend.<br/>Frame can be Wall Mounted - (fits between standard 600 on center studs), Floor Mounted, free standing with rollers.</p> <p><b>Size:</b> 1020 x 510 x 90mm     <b>Remarks:</b> Wheels sold sepratly.</p> | <p><b>Brand:</b> Triax</p> |
| <p><b>737030</b></p>  | <p><b>Wheels with Lock TCC</b></p> <p>Set of four wheels with break.<br/>Suitable for TMF 19" rack or Triax Enclosures</p> <p><b>Brand:</b> Triax</p>   |                            |
| <p><b>737040</b></p>  | <p><b>Bag of Screws for 19" Rack</b></p> <p>Cage nuts and bolts for use in 19" Racking systems.</p> <p><b>Remarks:</b> Bag of Four</p>  | <p><b>Brand:</b> Triax</p> |