

EtherTV Deluxe Brochure:

EtherTV introduces Digital Broadcasting Services directly into a LAN and distribute live broadcast TV and radio across IP networks.

EtherTV is a modular and scalable platform able to receive, demultiplex and stream into IP network DVB-like signals (DVB-S/S2, DVB-T, DVB-C and DVB-ASI). The optional Common Interface slots (CI option) allow to descramble encrypted channels.

The Deluxe option makes EtherTV the most advanced solution in the market: its add-on features become EtherTV in the most versatile and complete DVB-IP gateway in the new more dynamic scenarios where H.264 encoding is more frequently used and therefore more TV and radio services are available in a same multiplex.

EtherTV operation is independent of encoding and display resolution used in DVB service, i.e. MPEG-2 or H.264 TV channels presented in SD or HD can be inserted into IP networks.

Add-on Features

- *BISS descrambling supported. Multiple keys can be applied*
- *Dynamic service configuration. Changes in service information are detected and updated so the service streaming is not stopped*
- *Up to 14 services can be demultiplexed and streamed simultaneously*
- *EIT/EPG demultiplexing functionality is implemented*
- *SNMP monitoring*
- *Analysis and streaming of DVB-H services*

Basic Features

- *MPEG-2 TS stream over IP (UDP/RTP)*
- *Unicast and Multicast streaming*
- *Support for DVB-S/S2, DVB-T, DVB-C and DVB-ASI inputs*
- *Demultiplexing functionality and service filtering*
- *Direct MPTS encapsulation into IP. Up to 60 Mbps in DVB-S2*
- *IP Extraction from MPE (Multi Protocol Encapsulation)*
- *Optional CI slots for service descrambling. Alternatively, CA info can be passed through*
- *SNR, BER and Pwr measures are provided*
- *PSI/SI Analysis. PAT, PMT and SDT table regeneration*
- *SAP/SDP support*
- *Easy configuration via **POLARplus Manager** software tool*
- *Hot swappable and auto-start feature*
- *Compact Solution based on blade operation inside three possible chassis (see etherTV chassis brochure). 1RU/19" chassis is also available (see EtherTV Flex brochure)*
- *Extremely robust and durable (24/7 operation)*



Specifications and Requirements

- DVB-S Input
 - Connector: F-type female, 75 Ω
 - Symbol Rate: 1-45 MSym/s
 - FEC: 1/2, 2/3, 3/4, 5/6, 7/8
 - Input Level: -70 to -25 dBm
 - Frequency Range: 950-2150 MHz
 - LNB Voltage: 0, 13, 18 volt
 - Maximum LNB Supply current: 750 mA
 - LNB Signalling: LNB voltage + 22KHz tone
- DVB-S/S2 Input
 - Connector: F-type female, 75 Ω
 - Symbol Rate (DVB-S): 1-45 MSym/s
 - Symbol Rate (DVB-S2): QPSK 1-36 MSym/s, 8PSK 1-30 MSym/s
 - FEC (DVB-S): 1/2, 2/3, 3/4, 5/6, 7/8
 - FEC (DVB-S2): 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
 - Input Level: -70 to -25 dBm
 - Frequency Range: 950-2150 MHz
 - LNB Voltage: 0, 13, 18 volt
 - Maximum LNB Supply current: 750 mA
 - LNB Signalling: LNB voltage + 22KHz tone
- DVB-T Input
 - Connector: IEC female, 75 Ω
 - Input Level: -88 to -20 dBm
 - Frequency Range: VHF (174-230 MHz) and UHF (470- 862 MHz)
 - Channel Bandwidth: 7, 8 MHz
 - Carrier Modulation: QPSK, 16QAM, 64QAM
 - FEC: 1/2, 2/3, 3/4, 5/6, 7/8
 - Guard Interval: 1/4, 1/8, 1/16, 1/32
 - Carrier Mode: 8k, 2k
- DVB-C Input
 - Connector: IEC female, 75 Ω
 - Input Level: -15 to +20 dBm
 - Frequency Range: 47- 862 MHz
 - Channel Bandwidth: 7, 8 MHz
 - QAM Mode: 16, 32, 64, 128, 256
 - Symbol Rate: 0.87-6.952 Mbaud
- ASI Input
 - Connector: BNC female, 75 Ω
 - Maximum Bitrate: 213.7 Mbps
 - Input Return Loss: > 17dB
- Network Interface (Streaming and Management)
 - 10/100 (RJ45) half/full duplex, auto negotiate

- Network Protocols
 - UDP/RTP (Streaming Multicast/Unicast)
 - TCP/IP (Management)
 - SAP/SDP
 - SNMP
 - IGMP v1, v2
- Power:
 - 5 W per blade (8 W with CI option)
- Physical:
 - Height x Width x Depth: 129 x 20 x 174 mm
 - Weight: 150 gr.
- Environmental:
 - Agency Approvals: CE, RoHS
 - Humidity: Up to 80%, non condensing
 - Temperature: 0 to +50 °C; fan less when operated in single box chassis
- Limited Warranty:
 - 1 year standard limited warranty. Warranty extensions are available

Ordering Information

- **POL-ETV-DX-S:** EtherTV Deluxe DVB-S board
- **POL-ETV-DX-S-CI:** EtherTV Deluxe DVB-S board with two CI slots
- **POL-ETV-DX-S2:** EtherTV Deluxe DVB-S2 board
- **POL-ETV-DX-S2-CI:** EtherTV Deluxe DVB-S2 board with two CI slots
- **POL-ETV-DX-T:** EtherTV Deluxe DVB-T board
- **POL-ETV-DX-T-CI:** EtherTV Deluxe DVB-T board with two CI slots
- **POL-ETV-DX-C:** EtherTV Deluxe DVB-C board
- **POL-ETV-DX-C-CI:** EtherTV Deluxe DVB-C board with two CI slots
- **POL-ETV-DX-ASI:** EtherTV Deluxe DVB-ASI board

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