



EtherTV Bridge provides a market-leading and cost-effective solution for interconnection among traditional video contribution based on DVB-ASI and IP networks. By taking advantage of the inherent flexibility of IP, broadcasters are offered an efficient, affordable and scalable solution for professional quality video contribution and distribution over IP networks.

This product bridges either multiple or single MPEG-2 transport streams from DVB-ASI to IP and vice versa. EtherTV Bridge handles any transport stream carrying MPEG-2, MPEG-4 (H.264 AVC) or VC.1 compressed video in Standard Definition as well as High Definition.

EtherTV Bridge does not need external time reference, as GPS one, for accurate synchronization in SFN DVB-T/H networks. The powerful algorithms included permit a fast and accurate locking bitrate control to the incoming transport stream that is fully compliant with SFN deployments.

KEY FEATURES

- Transmission of MPEG-2 Transport Stream over IP (UDP/RTP)
- Two separate devices: Bridge IN (from ASI to IP) and Bridge OUT (from IP to ASI)
- MPTS constant bitrate locking and transport with no PCR re-stamping (SFN mandatory)
- Protection against network jitter
- Fast and accurate locking to transport stream
- No need for external time reference for accurate synchronization in SFN DVB-T/H networks
- Carrier grade, 24/7 operation
- SAP/SDP support
- Easy configuration via POLARplus Manager software tool
- SNMP monitoring
- Hot swappable and auto-start feature
- Compact Solution based on blade operation inside three possible chassis (see etherTV chassis brochure).

SPECIFICATIONS AND REQUIREMENTS

- o **ASI Interface**
 - ✓ 1x input (EtherTV Bridge IN)
 - ✓ 2x mirrored outputs (EtherTV Bridge OUT)
 - ✓ Connector: BNC female, 75 Ω
 - ✓ Maximum Bitrate: 213.7 Mbps
 - ✓ Input Return Loss: > 17dB
- o **Processing (EtherTV Bridge OUT)**
 - ✓ Throughput: 50 Mbps max.
 - ✓ Buffering of 100 ms.
 - ✓ Max. accepted jitter measurements (fully compliance with ETSI TS 102 034):
 - 180 ms for 25 Mbps TS
 - 60 ms for 50 Mbps TS
- o **Network Interface (Streaming and Management)**
 - ✓ 10/100 (RJ45) half/full duplex, auto negotiate
- o **Network Protocols**
 - ✓ UDP/RTP (Streaming Multicast/Unicast)
 - ✓ TCP/IP (Management)
 - ✓ SAP/SDP
 - ✓ IGMP v1, v2
- o **Power:**
 - ✓ 4 W per blade (8 W with CI option)
- o **Physical:**
 - ✓ Height x Width x Depth: 129 x 20 x 174 mm
 - ✓ Weight: 150 gr.
- o **Environmental:**
 - ✓ Agency Approvals: CE, RoHS
 - ✓ Humidity: Up to 80%, non condensing
 - ✓ Temperature: 0 to +50 °C; fan less when operated in single box chassis
- o **Limited Warranty:**
 - ✓ 1-year standard limited warranty. Warranty extensions are available

ORDERING INFORMATION

- o **POL-ETV-DX-ASI** : EtherTV Bridge IN; ASI to IP gateway
- o **POL-ETV-BOUT**: EtherTV Bridge OUT; IP to ASI gateway