

Ursus transcoder device provides real-time H.264/AVC transcoding of MPEG-2 single program transport stream for Digital TV, IPTV and distribution applications. It is also suitable for video solutions that require bitrate and display resolution reduction. Ursus transcoder makes the migration to H.264/AVC easier to TV operators, increasing the number of video/audio streams that can be distributed using the same bandwidth and keeping the picture quality.

Different models of Ursus transcoder are available, varying from a compact solution (board housed in an EtherTV chassis) to a 1RU chassis. Depending on the model, different maximum numbers of transcoded/transrated services are possible.

KEY FEATURES

- Transcoding of multiple SPTS from MPEG-2 to H.264/AVC streams for Digital TV applications
- Transrating of multiple MPEG-2 or H.264 SPTS to decrease the bitrate and/or video resolution
- SPTS received over IP (UDP/RTP) and transcoded/transrated programs delivered over IP (UDP/RTP)
- Unicast and Multicast streaming
- Configurable bitrate and video resolution
- Service filtering for removing the audio components not desired in broadcasting
- Easy configuration via POLARplus Manager software tool
- Device configurations can be saved and restored, making frequent configuration changes easier
- 1RU/19" and compact solutions available.

SPECIFICATIONS AND REQUIREMENTS

- o **Video and audio input**
 - ✓ SPTS over IP (MPEG-2 or H.264)
 - ✓ Multicast and unicast traffic is supported
- o **Video processing**
 - ✓ H264.AVC transrated into H.264.AVC lower resolution
 - ✓ MPEG-2 MP@ML transcoded into H.264.AVC (ISO/IEC 14496-10)
 - ✓ Bit Rates: 20 – 2500 Kbps
 - ✓ Frame Rates: 10 – 30 Hz
 - ✓ GOP interval: 20-100
 - ✓ Resolutions: SQVGA, QCIF, QVGA, SIF/CIF, VGA, Full D1
 - ✓ Bit Rate Control: CBR, VBR
- o **Audio processing**
 - ✓ MPEG-1 audio layer 2 (ISO/IEC 11172-3 layer 2)
 - ✓ AAC-LC (Advance Audio Coding)
 - ✓ Bitrates: 64 – 288 Kbps
- o **Output**
 - ✓ TS streaming over IP/UDP or IP/RTP
 - ✓ Multicast and unicast traffic is supported
- o **Network Interface (Streaming and Management)**
 - ✓ Compact solution: 10/100 (RJ45) half/full duplex, auto negotiate
 - ✓ 1 RU/19" solution: 2 x 1GbE
- o **Network Protocols**
 - ✓ UDP/RTP (Streaming Multicast/Unicast)
 - ✓ TCP/IP (Management)
 - ✓ SAP/SDP
 - ✓ IGMP v1, v2
- o **Power & Physical:**
 - ✓ See Table 1
- o **Environmental:**
 - ✓ Agency Approvals: CE, RoHS
 - ✓ Operating Temp. & humidity: 0 to 50°C, < 80 % RH
 - ✓ Storage Temp. & humidity: -10 to 70°C, < 95 % RH
- o **Limited Warranty:**
 - ✓ 1-year standard limited warranty. Warranty extensions are available

ORDERING INFORMATION

- o POL-URSUS-SDC: Ursus transcoder for DTV in a blade
- o POL-URSUS-SD01: Ursus transcoder for DTV in a 1RU chassis

Table 1: Ursus transcoder models features

	Services transcoded to SD	Services transrated to CIF	Services transrated to CIF	Ethernet Interface	Power (W)	Physical	
						Dimensions (H/W/D) mm	Weight (Kg)
POL-URSUS-SDC	1 ⁽¹⁾	2	4	1 x 10/100	20	129, 20, 174	0.4
POL-URSUS-SD01	2	4	8	2 x GbE	260	44, 450, 345	4.7

⁽¹⁾ 2/3 D1

