

Ursus transcoder Brochure:

URSUS
TRANSCODER

Ursus device provides real-time transcoding of single program transport streams from MPEG-2 to H.264/AVC (MPEG-4, part 10) coding for Digital TV, IPTV and distribution applications. It is also suitable for video solutions that require decreasing the bitrate and display resolution.

Ursus transcoder offers to television operators to migrate to H.264/AVC from MPEG-2 encoding for its higher compression and increase the number of video/audio streams in the same bandwidth keeping the picture quality.

The bandwidth saving of H.264 compared with MPEG-2 provides a big motivation to migrate to H.264 in IPTV and Video Distribution systems.

The Ursus series have different models varying from a compact solution (board housed in an EtherTV chassis) to a 1RU chassis. Depending on the model, different maximum number of transcoded/transrated services will be available.

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, allowing taking into account frequently changing configurations*
- *1RU/19" solutions and compact solutions*

POL-URSUS-SD01



POL-URSUS-SDC



Ursus series features

	Nº Max Services transcoded to SD	Nº Max Services transcoded to CIF	Nº Max Services transrated to CIF	Ethernet Interface	Power (W)	Physical Dimensions (H/W/D) mm	Weight (Kg)
POL-URSUS-SDC	1 ⁽¹⁾	2	4	1x 10/100	20	129, 20, 174	0.4
POL-URSUS-SD01	2	4	8	2x GbE	260	44, 450, 345	4.7

⁽¹⁾ 2/3 D1

Specifications and Requirements

- Video and audio input
 - SPTS over IP (MPEG-2 or H.264)
 - Multicast and unicast traffic is supported
- Video processing
 - H264.AVC transrated into H.264.AVC lower resolution
 - MPEG-2 MP@ML transcoded into H.264.AVC (ISO/IEC 14496-10 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
- Audio processing
 - MPEG-1 audio layer 2 (ISO/IEC 11172-3 layer 2)
 - AAC-LC (Advance Audio Coding)
 - Bitrates: 64 – 288 Kbps
- Output
 - TS streaming over IP/UDP or IP/RTP
 - Multicast and unicast traffic is supported
- Network Interface (Input/output Streaming and Management)
 - 2x 1GbE or 10/100 (RJ45) half/full duplex, auto negotiate
- Network Protocols
 - UDP/RTP (Streaming)
 - TCP/IP (Management)
 - SAP/SDP
 - IGMP v1, v2
- Power (see table enclosed)
- Physical (see table enclosed)
- Environmental:
 - Agency Approvals: CE, RoHS
 - Operating temperature & humidity: 0 to 50°C, < 80 % RH
 - Storage temperature & humidity: -10 to 70°C, < 95 % RH
- Limited Warranty:
 - 1 year standard limited warranty. Warranty extensions are available

Ordering Information

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

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