

XOS Advanced Media Processor

FOR AT&T SPORTSNET & ROOT SPORTS AFFILIATES



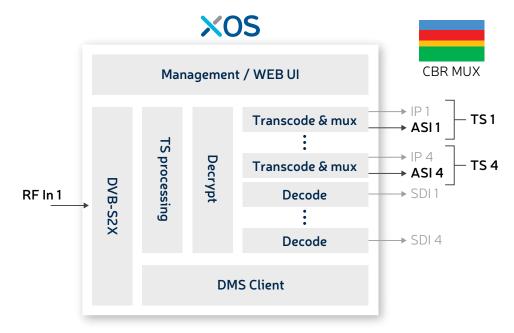
The XOS Advanced Media Processor is an all-in-one appliance that allows AT&T RSN affiliates to receive and process any program from AT&T SportsNet & ROOT SPORTS.

It is an advanced and powerful software-based Integrated Receiver Processor. The appliance is future proof and provides a complete feature set for satellite reception, decryption, multiplexing, transcoding and decoding of AT&T RSN signals. Refer to the generic XOS Advanced Media Processor datasheet for a full range of features and functionality.

The XOS Advanced Media Processor provides all of the required features to deliver multiple MPEG-2 Transport Streams and SDI output streams to feed downstream equipment like multiplexers or encoders.

Key features include:

- DVB-S2X satellite reception
- Content descrambling
- HEVC to H.264 or MPEG-2 video transcoding with multiplexing
- TS-over-IP and ASI output interfaces
- HEVC decoding to SDI output interfaces



XOS-2000 Input/Output and Functionality

Management

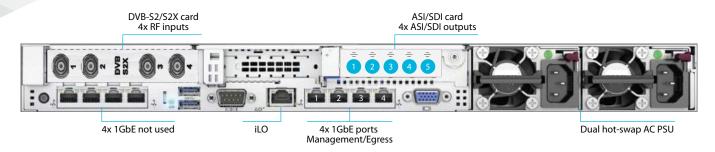
The XOS Advanced Media Processor is remotely controlled for channel subscription and authorization from a DMS central management system operated by AT&T RSN.

XOS standalone web UI, specifically designed for affiliates, provides local operation, monitoring and reporting capabilities.

XOS Advanced Media Processor

FOR AT&T RSN AFFILIATES

harmonic



XOS-2000 Back Panel Highlights

SPECIFICATIONS

VIDEO INPUT/OUTPUT

Satellite Inputs	Any service from any transponder: • Up to 4 x TS over DVB-S/S2/S2X • QPSK, 8PSK, 16APSK, 32APSK • Symbol rate up to 85Msps • Roll off 5% to 35%
Broadcast Live Outputs	TS over IPSDI outputsASI outputs
VIDEO PROCESSING	
Features	Harmonic PURE [™] compression High-density transcoding: • SD, HD, HD to SD down-conversion • MPEG-2 or H.264 (AVC) transcoding up to 28 SDs, 16 HDs

	Video codecs: • MPEG-2 • H.264
Decoding Profiles	 SD, HD, HD to SD down-conversion HEVC 4:2:0
Encoding Profiles	 SD, HD, HD to SD down-conversion MPEG-2 4:2:0 or H.264 (AVC) 4:2:0 MPEG-2 or H.264 (AVC) transcoding up to 28 SDs, 16 HDs

ADVANCED FEATURES

Decryption	 Automatic service descrambling – Authorization from management system Up to 70 services, up to 400Mbps capacity AES-128, SIM-based hardware root of trust
Multiplexing	 MPEG-2, AVC and mixed pool PSI/SI table Generation and Manipulation Up to 6 x MPEG-2 Transport Streams output

ENVIRONMENTAL

Temperature	Operating: 10°C to 35°C (50°F to 95°F) Non-operating: -30°C to 60°C (-22°F to 140°F)
Operating Humidity	8% to 90%
Product Materials	EMC Class A: FCC, CE, VCCI, KC, CCC, TCVN, C-Tick, BSMI
Product Safety	US/CA NRTL, CB Scheme, BIS, CCC, EAC, BSMI
Other Regulatory	EU RoHS, China RoHS, EU REACH, WEEE

POWER

Redundancy	Dual redundant power supplies, hot swappable 100/240 VAC
Power In	50/60 Hz
Maximum Power	At room temperature: 440W At max. temperature (35°C): 500W
MANAGEMENT	

Dimensions Weight

User Interfaces (Affiliates)	Dedicated Web interface for monitoring and troubleshooting
Other (Affiliates)	 Optional IP return path for telemetry and alarms HPE iLO management interface
Remote Control and Supervision	 Over the air satellite control through Harmonic DMS management system for: Device management: Easily add, remove, upgrade, and configure edge devices in your distribution network Channel management: Quickly grant/ revoke channel access to affiliates and manage black outs
APPLIANCE/PHYSICAL UNIT	
Appliance	Commercial off-the-shelf servers with built-in RF and ASI interfaces Flexible, full software-based appliance
Unit Size	1-RU

Flexible, full software-based appliance
1-RU
(HxWxD): 4.3 x 43.5 x 70.7 cm (1.7 x 17.1 x 27.8 in)
15 kg (33 lbs)

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