

Flexible on-prem software, built for evolving workflows

XOS is a powerful media processor that brings scalable HDR and UHD to your existing on-prem infrastructure while streamlining operations with an all-in-one, software-based appliance.

XOS unifies encoding, processing, playout, and rapid HDR conversion in a single platform, with built-in flexibility for every workflow and continuous feature updates to keep your services current.



Capabilities

Built for every workflow



Encoding and processing

Advanced software encoding with support for MPEG-2, AVC, HEVC, VVC and LCEVC, plus AI-assisted optimisation and statmux efficiency. Supports interlaced and progressive workflows up to UHD.

Multiplexing & scrambling

Advanced software encoding with support for MPEG-2, AVC, HEVC, VVC and LCEVC, plus AI-assisted optimisation and statmux efficiency. Supports interlaced and progressive workflows up to UHD.

Channel playout

Packages for HLS, CMAF, DASH, MSS and ATSC 3.0, with caption handling, DRM and push/pull packaging options for OTT and hybrid delivery.

Packaging & streaming

Supports live feeds, file-based assets, internal or external automation, and storage integration with SFTP, NFS, AWS S3, Google GCS and Azure Blob.

Graphics and branding

Supports logo insertion, animations, DVE, effects, crawls, dynamic data, RSS and EAS-driven overlays for channel presentation and compliance.

Capabilities

Any-to-any media processing, simplified



Future-proof

Containerized, microservices-based architecture that can run on COTS, private cloud, or hybrid deployments.

Continuous software releases add new codecs, standards, and features without hardware swaps.

Secure scaling

Optimized for modern Intel and AMD CPUs to deliver high channel density at low watts per channel.

Scales horizontally by adding nodes and vertically by increasing cores, with software controls to protect QoE under load.

Deployment & resilience

Available as a 1RU COTS appliance or Linux RPM software, with optional I/O cards, RAID storage, dual PSU and redundancy models from 1+1 to N+M.

Specifications

LIVE INPUTS AND DECODING

Input	TS over IP/ASI, SDI, SRT, HLS, RTMP, DVB-S2X, ATSC-1, SMPTE 2022-6/2110, AES-67, Sony NMI and more
Video decode	MPEG-2, H.264/AVC, HEVC, JPEG-XS, AVS+/AVS2 up to UHD, 4:2:0 and 4:2:2
Audio decode	PCM, MPEG-1 Layer II, AAC family, AC-3/E-AC-3, AC-4, Dolby E, stereo to multichannel

ENCODING AND PROCESSING

PURE software encoding on Intel/AMD CPUs for MPEG-2, AVC, HEVC (Main/Main10) up to UHD 3840x2160p50/60	
HDR/SDR	Dolby Vision, HDR10+, HDR10, HLG plus SDR:HDR and BT.709:BT.2020 color-space conversions
ASI	Any-to-any transcoding, loudness control (R128/A-85), up/down-mix, audio watermarking (e.g., Nielsen/Kantar)

MULTIPLEXING, SCRAMBLING & PACKAGING

Remux	DVB and ATSC PSI/SI/PSIP generation, service filtering and re-labeling for any output bouquet
Scrambling	BISS mode 1/E, DVB-CSA, AES and IPTV DRM hooks for broadcast and IP delivery
OTT packaging	HLS, CMAF/DASH, MSS with just-in-time packaging, low-latency CMAF support and multi-DRM via CPIX

PLAYOUT AND BRANDING

Playout	Integrated switching, branding, scheduling, recording, time-delay, clip editor and clean/dirty outputs
Feeds	live from TS/IP, ASI, RF, SDI, SRT plus file-based MXF/MOV assets and graphics
Graphics	HTML5/HTML graphics, logos, tickers, DVEs, EAS crawls; automation integration via SCTE, GPI and external control

MANAGEMENT, REDUNDANCY & DEPLOYMENT

Deployment	Native SRT listener and caller modes for flexible deployment Secure, low-latency transport over unmanaged IP networks
Redundancy	1+1 and N+M service protection, input TS redundancy and output mirroring

Support

MediaKind keeps your appliances running smoothly, minimizing risk and downtime, so your team stays focused on operations.

- Comprehensive support for all appliances
- 24/7/365 direct access to expert technical assistance
- Flexible service plans matched to your team and operations
- Continuous software updates
- Priority case handling with fast, predictable response times
- Backed by proven support engineering teams

SUPPORT PACKAGES

Basic

- ✓ Mon–Fri, 8a–5p, severity-1 support 24/7/365
- ✓ Portal access
- ✓ New software releases

SLA response times:

Severity 1	4 hours
Severity 2	Next business day
Severity 3	2 business days

Standard

- ✓ Mon–Fri, 8a–5p, severity-1 support 24/7/365
- ✓ Portal access
- ✓ New software releases

SLA response times:

Severity 1	1 hour
Severity 2	4 hours
Severity 3	8 hours

Premium

- ✓ 24/7/365 response for all severity levels
- ✓ Portal access
- ✓ New software releases

SLA response times:

Severity 1	30 min
Severity 2	2 hours
Severity 3	4 hours