



JPEG XS in Action!

Across LAN, WAN & Cloud
Visually Lossless. Ultra-Low Latency.



and many more...



ENGINEERING, SCIENCE & TECHNOLOGY

EMMYS[®]

WINNER

Television
Academy



Unbeatable JPEG XS Density

Lowering your live production Total Cost of Ownership

High-density JPEG XS processing:

- Up to **96 encode or decode channels per X20 2RU chassis**
- Flexible UHD/HD mix: up to 24 UHD + 72 FHD/HD
- 8 simultaneous encodes/decodes per module

Advanced JPEG XS support:

- TR-07 (MPEG-TS – no PTP required)
- TR-08 (ST 2110 – with PTP frame sync)

New capabilities:

- New **SLx300 module** for increased density and flexibility
- Sub-frame latency with visually lossless compression

Applications include:

- REMI / Remote live production
- Ground to Cloud contribution
- Inter-facility connectivity





BLADE//runner JXS – JPEG XS Encode/Decode app

arkona BLADE//runner JXS is a software application for the AT300 that provides 8 instances of ST2110-22 JPEG XS codecs. All 8 codecs are either configured as encode OR decode but can be changed on demand.

In addition, the JXS app provides uncompressed gateway capabilities with 2110-20, 30/31, and 40 encapsulation/de-encapsulation as well as routing/shuffling and delay/sync capabilities.

- Up to 64 UHD encoders/decoders in 3RU.
- Up to 16 UHD encoders/decoders in 1RU.
- ST2110-22 standards compliant.
- In active deployment by major live broadcast service providers.

BLADE//runner

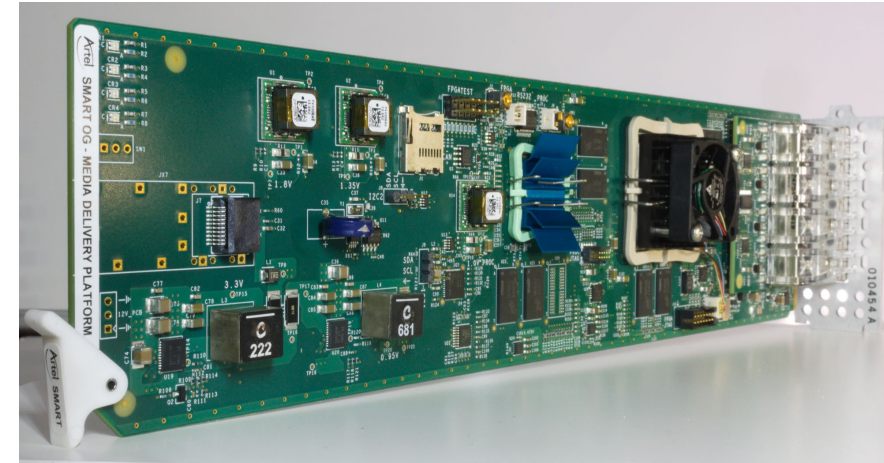




SMART openGear

SMART openGear® is a software-defined 12G/3G/HD/SD-SDI-over-IP multifunction gateway

- VSF JPEG 2000 TR-01, JPEG XS TR-07, SMPTE ST 2022-7:2013
- Autosensing
- Software defined
- 4 channels, Forward Error Correction



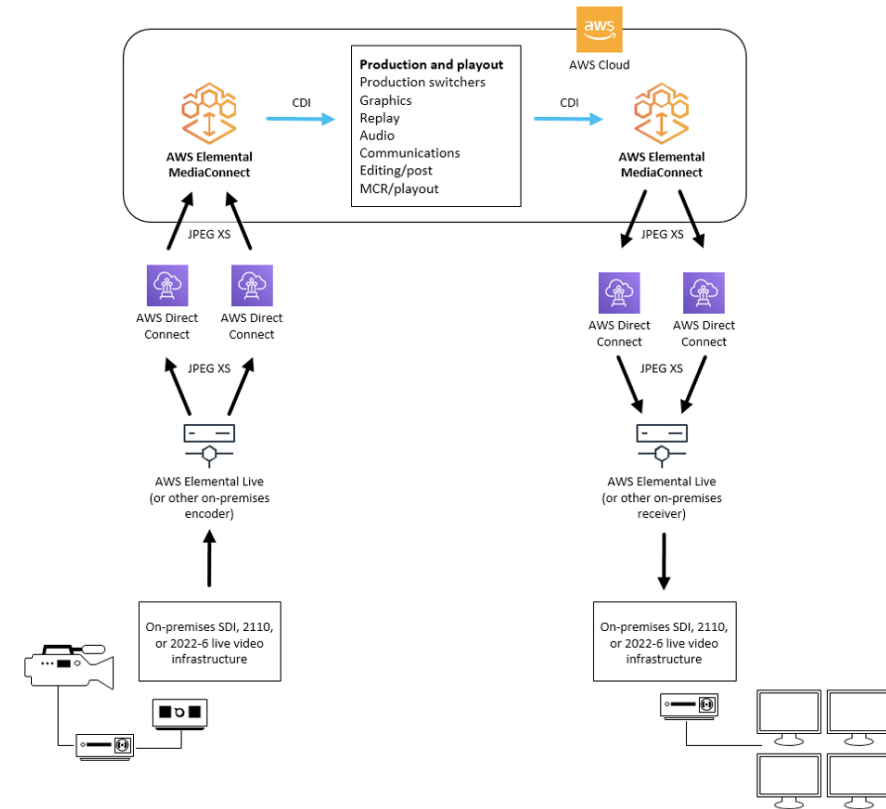
PATTON
let's Blog!



AWS Elemental Live and AWS Elemental MediaConnect JPEG XS for low-latency, visually lossless contribution & production to the cloud

AWS Elemental Live makes it simple to ingest/decode and output/encode to the JPEG XS standard. Encode and the decode functions follow the SMPTE ST 2110-22 specification for compressed video transport with support for NMOS. AWS Elemental MediaConnect receives these streams in an AWS Region and converts them to uncompressed video (using CDI, Cloud Digital Interface) for low latency, high video quality workflows.

- JPEG XS for LIVE PRODUCTION into the CLOUD with MediaConnect.
- Direct interface to AWS CDI.
- Premium quality | Minimal latency.





BarnPalette-Flow-XS

BarnPalette-Flow-XS enables visually-loss-less conversion of 4K and HD video signal between SDI and ST-2110-22 JPEG-XS stream, with optional ST-2022-7 redundancy for protection against data loss.

- JPEG-XS codec with 1/8~1/60 compression.
- ST-2022-7, ST-2059, NMOS full support
- Controllable through front-panel, web interface, SNMP, with NMOS support



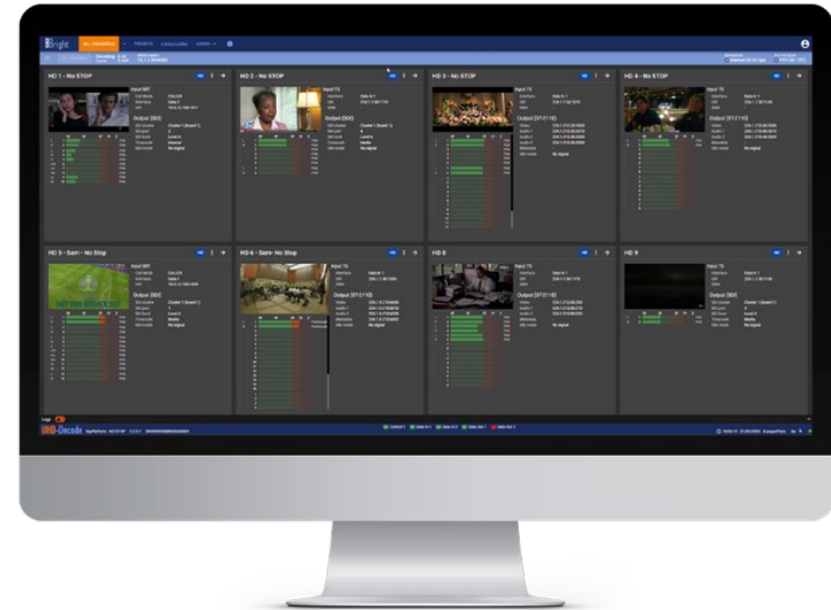
BBright

HEXAGLOBE GROUP

BBright Decoder

BBright Decoder is a universal (HEVC / H264 / MPEG2 / J2K) multichannel contribution and monitoring decoder designed for professional Broadcast applications such as for satellite, terrestrial, cable, OTT operators and IPTV networks.

- Transport Stream over IP, SRT and ASI input support.
- Up to 8 decoding channels with EVC / H264 / MPEG2 & J2K support
- UHD & HDR ready, and support for Dolby DD/DD+/Atmos/AC4/ED2 & Vision
- Adjustable XS bandwidth



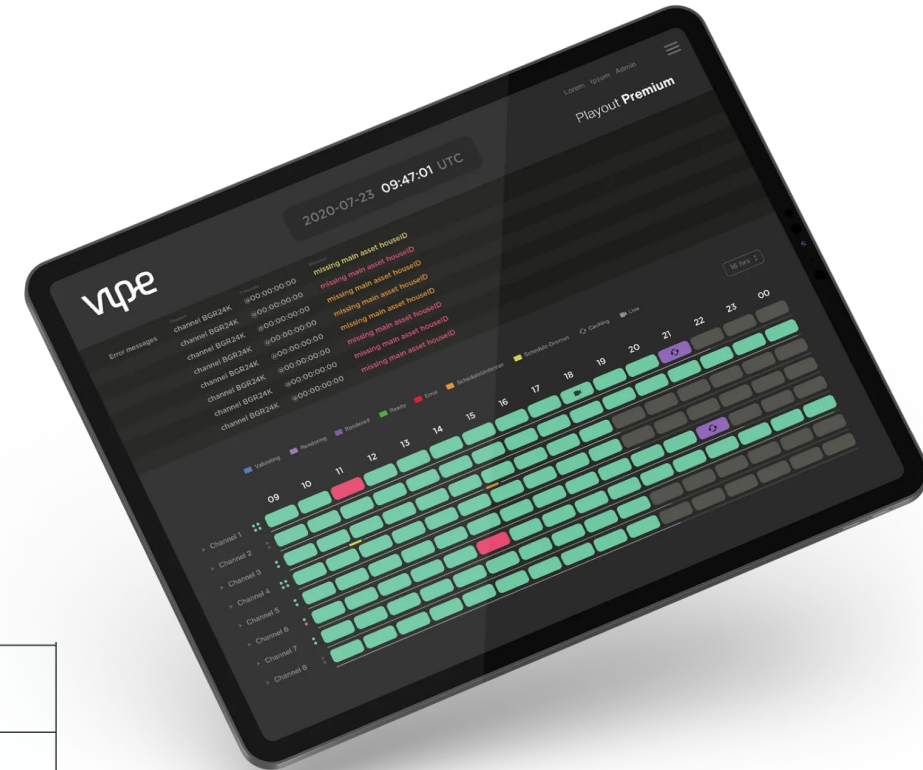


Playout Liberated.

by BCNEXXT

Vipe Playout

Vipe is a complete content playout platform that takes full advantage of the available cloud dynamics to scale resources to content's processing needs, bringing huge cost savings through efficient resource usage; now with JPEG XS inputs.



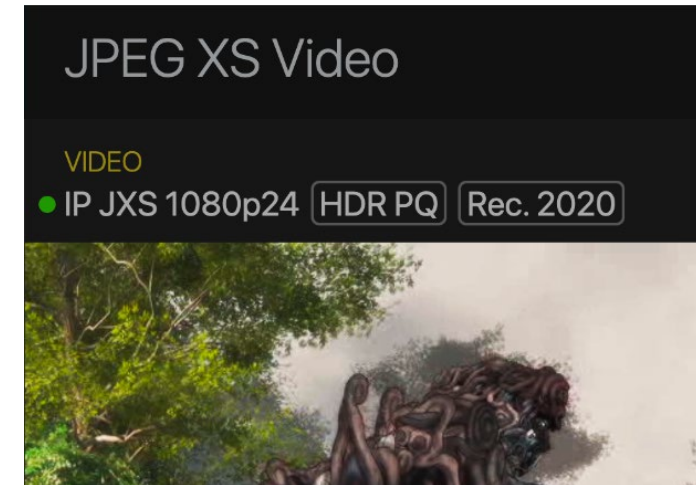
 Cutting costs	Reduced costs through maximum efficiency Up to 60% lower costs*
 Pay as you go	Increased financial flexibility Pay as you go plans, SaaS models
 Playout simplified	Playout all services from a common content pool Linear playout including live, OTT streaming and VoD
 99.9999% uptime	Highest reliability in the market 99.9999% Uptime*



VB440 Production Probe

Integration of JPEG XS compression analysis into the VB440 cements the position of the probe as an integral component of core broadcasting networks, production studios, master control centers, and outside broadcast vehicles and venues, future-proofing it so that broadcasters can continue to reap the benefits of advanced monitoring and insight even as they adopt new network standards.

- Broadcasters can ensure reliable, high-level ST2110 streams, from anywhere in the world, simply by accessing the probe through an HTML-5 browser.
- Supports data rates of up to 100Gbps and thus supports 4K production, which means that broadcasters are granted the flexibility to monitor complex and varied network configurations.
- Ensures low latency and exceptional image quality in any given production environment.



BRIDGE TECHNOLOGIES™

VB330 Appliance

All of the existing functionality that the VB330 provided for other formats has now been extended to the JPEG XS standard, across both appliance and software versions of the probe.

Up to 2000 multicasts using the JPEG XS standard or up to 50Gb of capacity, with the optional 2 * 25 Gb option, can be monitored, with comprehensive deep-dive metrics of the data presented in an intuitive, usable manner; including measurements of bit rate, packet drop, and excess jitter, as well as continuous thumbnail decode for validation of the data.

- TS monitoring and alarming for bitrate and packet loss analysis, and includes thumbnail decode for validation of the content and multicast data from the JPEG XS stream.
- Real-time monitoring.
- Timeline 'content' option has also been extended to cover JPEG XS streams.
- Allows for both thumbnails and measurement metadata to be recorded directly to the appliance for up to four days

NRK1 HD	5d	1	em2	7TS/RTSP	10.965 Mbps	79	11	0	1	10.965 Mbps	47.744 kbps	11.294 Mbps
JPEG XS Service	4h	5	em2	7TS/RTSP	178.903 M...	139481	8	0	1	178.903 M...	210.552 kbps	322.617 M...
Accumulated	4h	1	n/a		189.868 M...	139560	19		2	189.868 M...	1.837 Mbps	2.850 Gbps

Detailed Monitoring									
Services	Event log	IAT							
Service/PID	Bitrate	Min btr	Max btr	CC errors	Thumb	Type	PCR	Scr	
1 JPEG XS	178.846 Mbps	14.336 kbps	318.031 Mbps	139527		MPEG2 SD			
64 JPEG XS Video	169.629 Mbps	0 bps	301.617 Mbps	44079		JPEG XS Video			
96 SMPTE PCM Audio	4.601 Mbps	0 bps	8.199 Mbps	47724		SMPTE PCM Audio			
97 SMPTE PCM Audio	4.601 Mbps	0 bps	8.199 Mbps	47724		SMPTE PCM Audio			
32 PMT	15.096 kbps	14.336 kbps	15.792 kbps	0		PMT			
80 PCR	40.768 kbps	0 bps	78.184 kbps	0		PCR			
Other PIDs	16.600 kbps	15.768 kbps	234.496 kbps	0		Other			

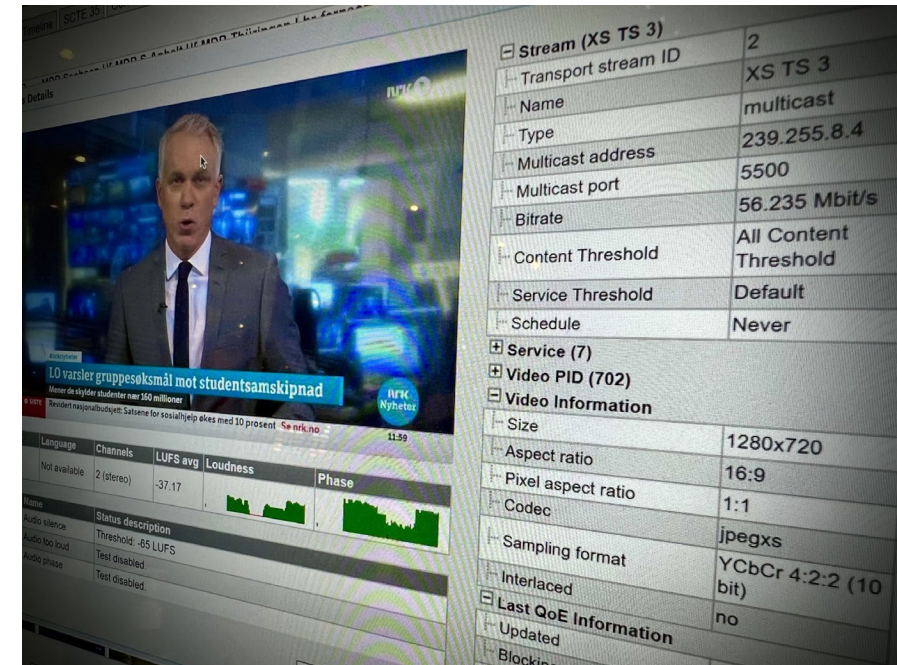




VB220 Software Probe

All of the existing functionality that the VB220 provides has now been extended to the JPEG XS standard, across the software version of the probe. The VB220 probe is available as a pure software image that can be installed on suitable server hardware or in virtual machine environments by the end user. This opens the VB220 probe to be run on any Intel-based server infrastructure available. The VB220-SW uses the patented MediaWindow™ to allow monitoring at-a-glance of packet loss and errors in inter-packet arrival time.

- The VB220 software allows TS monitoring and alarming for bitrate and packet loss analysis, and includes thumbnail decode for validation of the content and multicast data from the JPEG XS stream
- Parallel and continuous monitoring of up to 260 IP unicasts/multicasts according to ETSI TS 102 034
- Support for up to 200 concurrent TR 101 290 analysis engines on IP multicast
- Support for monitoring of up to 250 HLS/M-DASH OTT Streams
- Data can be held and archived locally – including visualisation of thumbnails and identification of Quality of Experience issues such as blackframes, freeze frames, sound intensity and MOS scoring





MVTP HD and MVTP 4K / 8K

Ultra-low-latency video and audio transmissions over long-distance Internet connections for latency-critical applications. Added latency of transmitter and receiver together under 3 ms.

- All-in-one device, fanless, 100% quiet.
- Video up to 1080p60 or 2160p60, 8K version to be available in 2023 as a firmware upgrade.
- Up to 8x 12G-SDI interface for video.
- 8x audio input, 8x audio output.
- Not limited to local network applications, transmission over the worldwide Internet.





MVTP HD and MVTP 4K / 8K

The technology received Europa Nostra Award / Creative Europe Award for support of collaboration in classical music on a European scale.

- Distance collaboration in the performing arts, ultra-low-latency communication.
- Distance master classes, rehearsals, auditions, cultural exchanges.
- Distributed performances with artists in different cities, countries or continents working together in real time for audience in multiple places.



Creative
Europe



COBALT

SAPPHIRE CONVERTERS

SAPPHIRE BBG-2110-H/S or 2H→Single or Dual-Channel Receivers

SAPPHIRE BBG-2110-4Ho/4Sio → Quad-Channel Receiver

SAPPHIRE BBG-2110-4Hi/4Sio →Quad-Channel Sender

SAPPHIRE BBG-2110-2Ho2Hi/4Sio→ Dual-Channel Sender/Receiver

The SAPPHIRE BBG-2110 12G mini-converter series address the need to display received Baseband or JPEG-XS content on HDMI monitors in a simple and cost-effective way. The mini-converters are very quiet and designed to be mounted behind the monitor. The BBG-2110-H/S and BBG-2110-4Ho/4Sio and 4Hi/4Sio are single and quad-channel units with simultaneous SDI and HDMI outputs and the BBG-2110-2H is a dual-channel unit with independent HDMI outputs.

The units have dual power supplies, can convert the JPEG-XS stream with associated audio and ancillary data essences to HDMI and support SMPTE ST 2022-7 Seamless Redundancy up to Class C for WAN operation. The units also support NMOS IS-04/IS-05 control, both in-band and out-of-band, web interface and DashBoard™ control and support all popular formats: 720p, 1080i and 1080p.



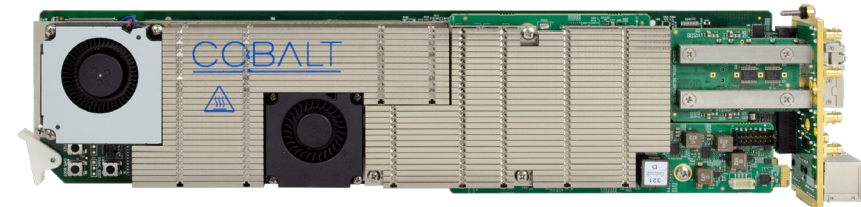
COBALT

PACIFIC 9992-ENC + INDIGO 2110-DC-02 4K HEVC/AVC/MPEG2 Encoder with JPEG-XS video

The PACIFIC 9992-ENC is a very flexible encoder, capable of handling up to four signals up to 1080p60, or one 4K signal. It now offers full support for ST 2110-20 (baseband) and an ST 2110-22 option for JPEG-XS video, in addition, support is included for full asynchronous operation (IPMX-compatible) or IPMX operation in the INDIGO 2110-DC-02 factory-installed option for SMPTE ST 2110.

PACIFIC
COMPRESSION

INDIGO
SERIES



COBALT

PACIFIC ULL-DEC + INDIGO 2110-DC-02

4K HEVC/AVC/MPEG2 Decoder with JPEG-XS video

The PACIFIC ULL-DEC is a very flexible decoder, capable of handling up to two signals up to 1080p60, or one 4K signal. It now offers full support for ST 2110-20 (baseband) and an ST 2110-22 option for JPEG-XS video, in addition, support is included for full asynchronous operation (IPMX-compatible) or IPMX operation in the INDIGO 2110-DC-02 factory-installed option for SMPTE ST 2110.

PACIFIC
COMPRESSION

INDIGO
SERIES



COBALT

INDIGO OG-2110-BIDI4-GATEWAY

Bidirectional quad-channel native ST 2110 interface to SDI I/O

The Cobalt INDIGO OG-2110-BIDI4-GATEWAY has native SMPTE ST 2110 support in an openGear® format with dual 25G Ethernet interfaces for ST 2022-7 support.

The transmit and receive paths of the gateway can operate simultaneously. INDIGO OG-2110-BIDI4-GATEWAY also includes support for ST 2022-7 seamless redundancy switching, as well as IS-04/IS-05 NMOS for automatic discovery and configuration.

INDIGO
ST 2110



COBALT

9904-UDX 4K + INDIGO OG-2110-DC-01

9905-MPx + INDIGO OG-2110-DC-01

The COBALT INDIGO 2110-DC-01 is a factory add-on option to Cobalt 9904-UDX-4K and 9905-MPx models which adds native SMPTE ST 2110 support with multiple 25G Ethernet interfaces.

The INDIGO 2110-DC-01 circumvents the error-prone, and expensive prior solutions of multiple devices in the data path. It adds native ST 2110 interfaces to the audio/video processing elements. By natively doing all the processing directly over IP, unnecessary complexity and cost is avoided.

INDIGO
/// SERIES



TOPAZ
/// MULTI-PROCESSORS



VIPS-8K-IP broadcast video server

The VIPS-8K-IP system is simple and stable, supports 8K JPEG XS file, and other encoding formats for file decoding and broadcasting, supports video compression and other external protocols IP stream function, and built-in capability of various types of subtitles insertion.

The final output is a JPEG XS video compressed IP stream and supports ST2022-7 redundancy to ensure the security of the output stream.

The broadcast server can be controlled by third-party control software: file decoding and playback, external signal switching, upper and lower subtitles, and other functions, can be used as a broadcast server, used in the master control broadcast system.





8K IP multi-screen platform product

This product supports signal input of various IP protocols, including ST2110- 22 JPEG XS video compression signal.

It can collect multiple signals for centralized echo monitoring and can monitor and analyze each IP signal in real time.

Thanks to the JPEG XS video encoding, the transmission bandwidth is greatly reduced to meet the input requirements of multi-screen 8-channel 8K signals.



DELTACAST

VIDEO SOLUTIONS FOR DEVELOPERS

IP Virtual Card v2.2

Low-bitrate SMPTE 2110-22 video streaming support with DELTACAST IP Virtual Card and intoPIX JPEG XS software.

- Unified SDK for ST 2110 video capture and streaming using standard COTS network cards (NIC)
- Linux and Windows (on x86 architectures), ARM computers
- Offer support from ST 2110-22 streaming at application level: constant and variable bitrate modes

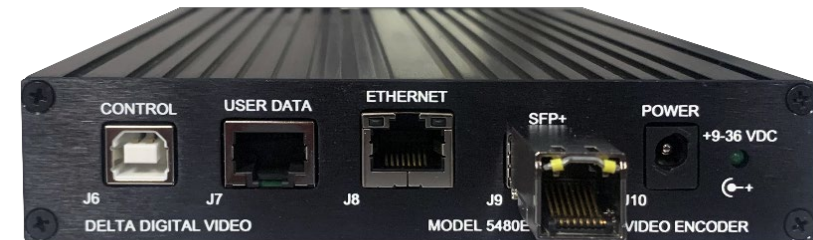




5480E/D UHD/HD/SD VIDEO ENCODER/DECODER

The Model 5480E Video Encoder and 5480D Video Decoder are versatile, multi-channel network appliances for real-time video streaming applications. Supporting resolutions to 4K and H.264, H.265, and JPEG-XS encoding/decoding, these units provide flexibility for system designers and integrators in diverse applications. The 5480E and 5480D deliver high-quality, low latency video for Defense, Homeland Security, Broadcast, and Enterprise projects. A compact, rugged design and extended temperature operation ensure operation in any environment.

- High-quality, low-latency encoding/decoding for video-over-IP applications
- H.264 and H.265 algorithms
- Visually lossless, Super low-latency JPEG-XS on existing GigE networks
- Resolutions to 4K
- Supports UHD/HD/SD-SDI, HDMI, USB 3.0 and Composite Formats
- RTSP/RTP/UDP, TS/UDP, SMPTE-2110, SRT/RIST, PTP/NTP
- MISB/STANAG-Compliant
- AES Encryption
- Compact and rugged with extended temperature operation

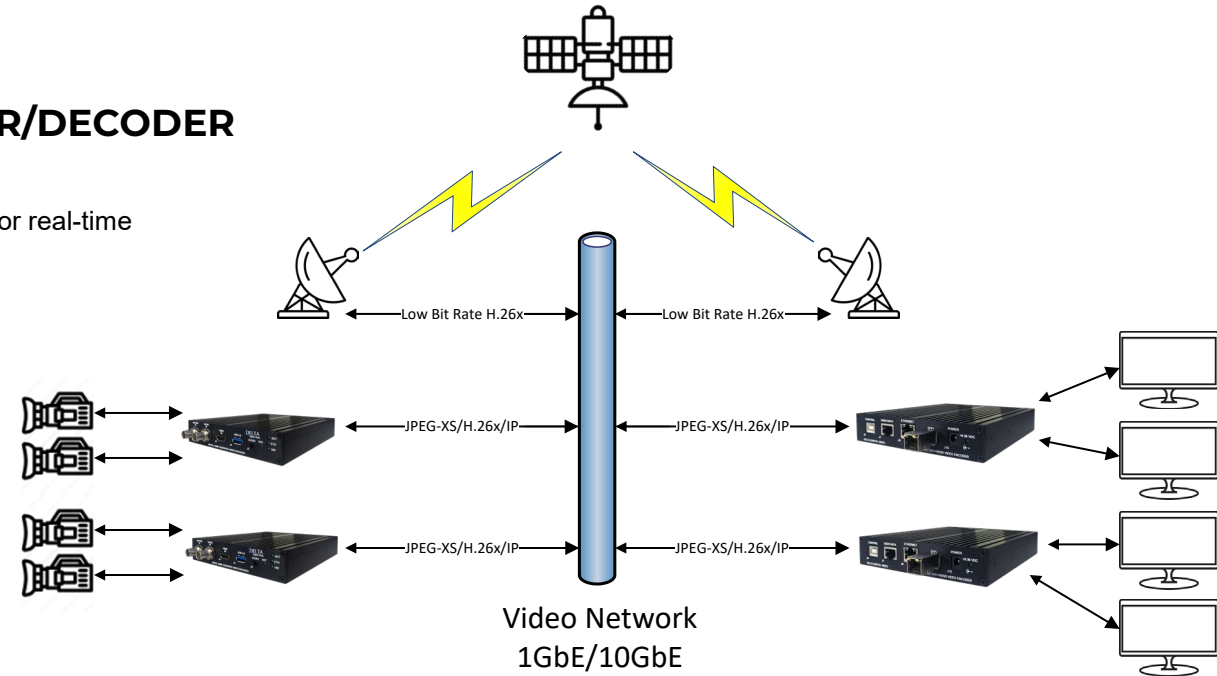




5480E/D UHD/HD/SD VIDEO ENCODER/DECODER

Delta's Next-gen Video Encoders and Decoders are designed for real-time streaming applications where quality and reliability are critical.

- Defense
- Homeland Security
- Enterprise
- Broadcast



Dotek

Dotek R8 Series JPEG-XS ST 2110 8K UHD Encoder

Dotek R8 series JPEG-XS ST 2110 8K UHD encoder adopts standard 1U chassis structure, is a high quality broadcast audio and video real-time encoder product.

- It can compress 4-channel 12G-SDI, or 4-channel 6G-SDI, or 4-channel 3G/HD/SD-SDI digital videos into any of the above video encoding formats in real-time through the encoding module.
- The application of JPEG XS encoding standard can achieve visual lossless quality image encoding technology. Its complexity and latency are low, making it suitable for real-time high-quality image or video compression.
- Application scenarios include real-time video transmission storage and buffering, omnidirectional video, and sensor data compression,



Doteck

Doteck R4 Series JPEG-XS ST 2110 4K UHD Encoder

Doteck R4 Series JPEG-XS ST 2110 4K UHD encoder and transcoder adopts standard 1U chassis structure, is a high quality broadcast audio and video real-time encoder and transcoder product.

- It can compress 1-channel 12G-SDI, or 2-channel 6G-SDI, or 4-channel 3G/HD/SD-SDI digital videos into any of the above video encoding formats in real-time through the encoding module.
- The application of JPEG-XS encoding standard can achieve visual lossless quality image encoding technology. Its complexity and latency are low, making it suitable for real-time high-quality image or video compression.
- Application scenarios include real-time video transmission storage and buffering, omnidirectional video, and sensor data compression.





Eluvio Content Fabric Live Video Broadcast Feed Distribution

Ingest and distribute live source feeds as SMPTE 2022/2110. Replace satellite and ptopt fiber, with no cloud egress or latency.

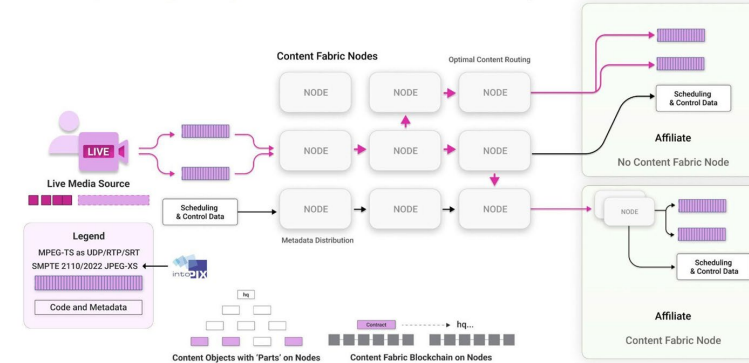
Ultra-low latency distribution globally, secure and multi-path, unlimited SRT / RTP outputs

NEW JPEG-XS / JPEG2K Ingest for SMPTE 2110 / 2022 Live Broadcast Feed Distribution with IntoPIX, the Content Fabric now provides sub-second ultra low latency distribution globally for live broadcast feeds over IP, secure and multi-path

The Eluvio Content Fabric is a next generation video over IP protocol and full featured content delivery network that delivers **low latency, high availability, maximum quality distribution of live, VOD, and FAST content (D2C and B2B), with breakthrough cost efficiencies, a zero copy architecture, and built in data driven personalization and monetization.**

Live Video Feed Distribution

ULL (<500ms), Global, Reliable Distribution Broadcast Transport Streams with SRT Out



We built upon the IntoPIX JPEG-XS/JPEG-2K SDKs to enable the Content Fabric to ingest live broadcast source feeds as SMPTE 2022/2110 in addition to MPEG-TS encoded as AVC,HEVC over UDP/RTP/SRT. The ingested feeds are dynamically distributed globally (secure and multi-path) with sub-second latencies and unlimited global outputs on demand as SRT/TS and other formats. The implementation preserves all 2022 individual streams including video and audio program streams and ancillary data.



EB82SOC1 – JPEG XS System on Chip Processor

Available exclusively to video equipment manufacturers, the EB82SOC1 “System on Chip” is a software defined processor for adding multi-channel ST 2110 Encapsulation / De-encapsulation and JPEG XS Encode / Decode (TR 08) to almost any broadcast video product. Enhanced with a 50 ms buffer to cope with jittery networks.

- High performance, feature rich, and standards compliant
- NMOS, Ember+, RESTful API, and SPI control interfaces
- Compact and robust package, comprehensive suite of integration tools
- Faster time to market for video equipment manufacturers, dramatically reduced development costs



EB82SOC1
Software-Defined
Video Processor

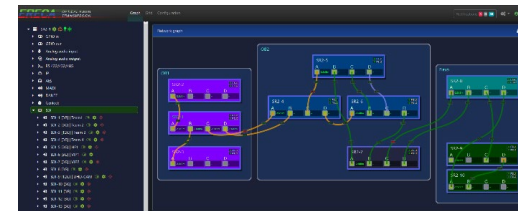
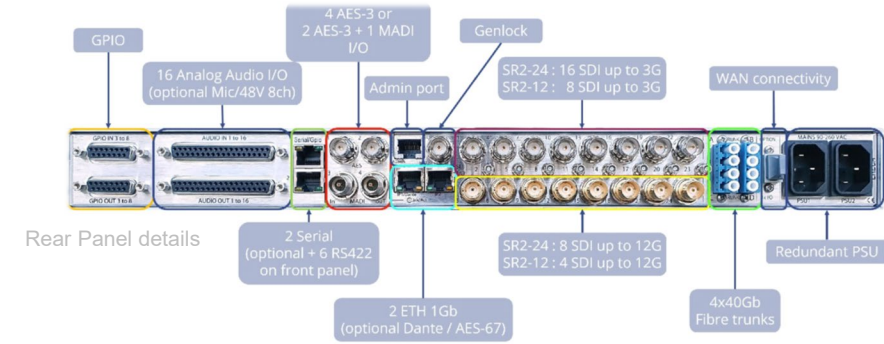
Embrionix is a member of the Riedel Communications Family



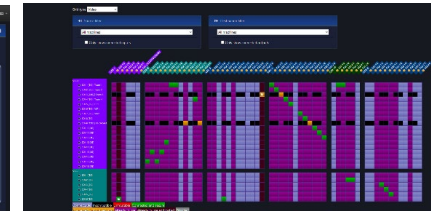
STAGE RACER 2

The Stage Racer 2 is a Transmission, Routing, Distribution, Conversion, and Processing unit typically used for live events in Broadcast. JPEG XS codecs enable to optimize the available bandwidth without any visual effects on the video quality.

- Up to 24 SDI (16x3G + 8x12G) on 1RU – JPEG XS codecs on 12G-SDI Ports (x8).
- Genlock, Ethernet, Audio mic/line, AES, MADI, RS, GPIO, Dante / AES-67.
- Meshed topology with reduced latency (few μ s per equipment).
- Standard 10km QSFP, 40km available.
- Audio-video processing (Embedding, De-embedding, Audio shuffling, SRC on all in/out, Frame sync and delays, Embedded Multiviewer).



Meshed topology



Routing Grid





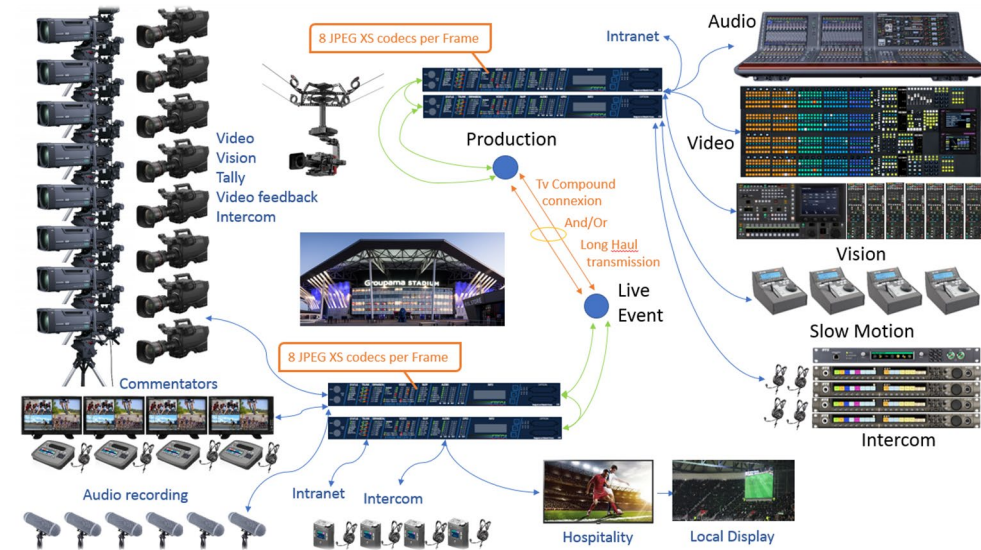
STAGE RACER 2

Stage Racer 2 includes up to 8 JPEG codecs which can be activated.

JPEG XS codecs offer the possibility to decrease the required bandwidth for SDI streams and to keep a low latency in order to manage local and also remote production through 10Gb OTN Telco interfaces.

The ultra-low latency achieved allows doing full remote production, including real-time return feeds with no noticeable delay between direct sight and locally displayed studio processed streams.

- Transmission capability on 10Gb OTN (Up to 5x bidi 12G-SDI on a 10Gb Link with TicoXS).
- Low latency and video quality preserved even with compression rates such as 8:1.
- Manage many video formats from HD-SDI to 12G SDI (3840x2160 @ 60 Hz).





ev670-X45-HW

High-density JPEG XS encoder/decoder (license) with 12G-SDI/SMPTE ST 2110 inputs.

Includes licenses for TR-07 and TR-08

- Ideal for remote or local UHD/8K production
- Support for 12G-SDI and SMPTE ST 2110
- High density module with apps for 8x JPEG XS encode and 8x JPEG XS decodes, or 16x JPEG XS decodes or 2x 8K JPEG XS encode or decode
- Versatile for transport (using TR-07) or within facility (TR-08)





MIO-BLADE-Z21

Miniature input and output processor to enable compression, gateway, and video processing services in broadcast networks.

- Ideal for production, media transport, and processing and conversion applications.
- MIO-BLADE-Z21 is FPGA accelerated hardware MIO module for SCORPION Flexible Media Processing Platform (scalable edge media processing)
- Quad channel density variations for both symmetrical and asymmetrical applications supporting up to 12G formats without compromise. Feature rich including FEC, 12G gearboxing, and configurable IO.
- Versatile for transport (using TR-07 with upcoming releases for TR-08)





MIO-BLADE-Z22-SFP

Miniature input and output processor to enable multiple paths of JPEG XS encoding/decoding

- Ideal for production, media transport, and processing and conversion applications.
- Six paths JPEG XS encode / decode app
- Support for 12G-SDI and IP for UHD
- Optical IO
- Different combinations of encode / decode
- Versatile for transport (using TR-07 with upcoming releases for TR-08)





XPS Live Video Encoder Series

XPS Live Video Encoder Series is Evertz' real-time high quality and low latency video (up to UHD) encoder and decoder module for live streaming, cloud-based, REMI / remote production, OTT, and on-demand applications using the public Internet. Available in multiple form factors.

- Real-time ultra-low latency encoding and decoding for formats up to UHD for remote application using the public Internet
- Support for SDI and SMPTE ST 2110 interfaces
- Supported codecs: H.264, HEVC, and JPEG XS
- Support transport protocols: SRT, RIST, Zixi, and RTMPS





RFX-ITXE-HW-DUO

Next-generation media processing platform for signal normalization and on-ramp applications

- Support for uncompressed video over 12G-SDI and 25 GbE (ST 2110) I/O or compressed using MPEG2-TS, SRT, and RIST protocols
- Supports Encoding/Transcoding and advanced processing including up/down/cross Conversion and frame-sync
- Support for multiple codecs including JPEG XS (TR07 and TR08) and HEVC
- Multiple flows per unit, flexible and licensable apps





ev670-X30-HW-2 (with evVIP-APP-100G-ST-2110-22 app)

FPGA-based SMPTE ST 2110-22 Multiviewer (up to 24 x 4K or 12 x 8K inputs and up to 2 x 4K outputs)

- FPGA accelerated hardware with apps for multiviewing uncompressed SMPTE ST 2110 and compressed ST 2110-22 (JPEG XS)
- High-density multiviewer app for ST 2110-22 (JPEG XS) / TR-08
- Fits into any ST 2110 facility to monitor incoming remote contribution signals
- Supported by MAGNUM-OS and other NMOS-compliant controllers





sVIP

Software-based multiviewer for mixed uncompressed SMPTE ST 2022-6 and 2110 and compressed formats with up to 8x 1080p ST 2110 outputs and H.264 or NDI outputs

- Software-based multiviewer on Evertz or customer provided COTS servers with support uncompressed SMPTE ST 2110 and compressed inputs (JPEG-2000, JPEG XS, HEVC, H.264, MPEG-2, and NDI)
- Supports multiple protocols including: SRT, RIST, UDP, RTP, HLS, LSS, and MPEG-DASH
- Fits into any ST 2110 facility to monitor transmission, and network signals
- Supported by MAGNUM-OS and other NMOS-compliant controllers





DreamCatcher™ Production Suite

DreamCatcher™ Production Suite provides several tools for live production.

The DreamCatcher™ Production Suite includes slow motion replay, clip playback, ingest/record, and non-linear editing with support for JPEG XS as a mezzanine codec.

- Ingest natively over IP JPEG XS using TR-07 or TR-08
- Simplifies ingest and playback production workflow without the need for external decoders / encoders
- Support new UHD / 8K production workflows and scalable to any size of production.





NUCLEUS

Simplified AV over IP for moving high resolution signals (up to UHD) over a

- Visually lossless, ultra-low latency routing over 1G / 2.5G / 10G Ethernet network.
- Compatible with any IGMP-managed COTS switch.
- Hardware-based gateways for maximum performance.
- Simple to deploy, operate, and maintain.
- Recommended for small-to-medium sized AV routing projects.





MMA10G IPMX Ready product family

High bandwidth and low latency network based AV distribution. Designed for ultra scale deployment including secured, multi-classification spaces by using 10/25GbE connections and software defined networking..

- Uncompressed or compressed (JPEG XS), live network-based routing with IPMX support
- Dedicated 10G Ethernet switch fabric for routing.
- Hardware-based HDMI and SDI gateways.
- Highest government security certifications (CC certified under NIAP).
- High quality, zero latency, and secure AV corporate, government, and defense applications





Neuron Compress

Ultra Low Latency, Visually Lossless Video Compression

Compress is EVS' high density JPEG-XS transcoder identity for the Neuron real-time A/V processing platform, which enables IP and SDI workflows.

Compress is one of the 6 identities that can be deployed on the Neuron hardware

- ST2022-7 Class A, B, C, D
- Up to 48 FHD encoders/decoders in 1 RU @240Watts
- Up to 24 UHD encoders/decoders in 1 RU @240Watts
- Including frame syncs, color correction, audio (de-)embedding, audio processing and audio and metadata shuffling

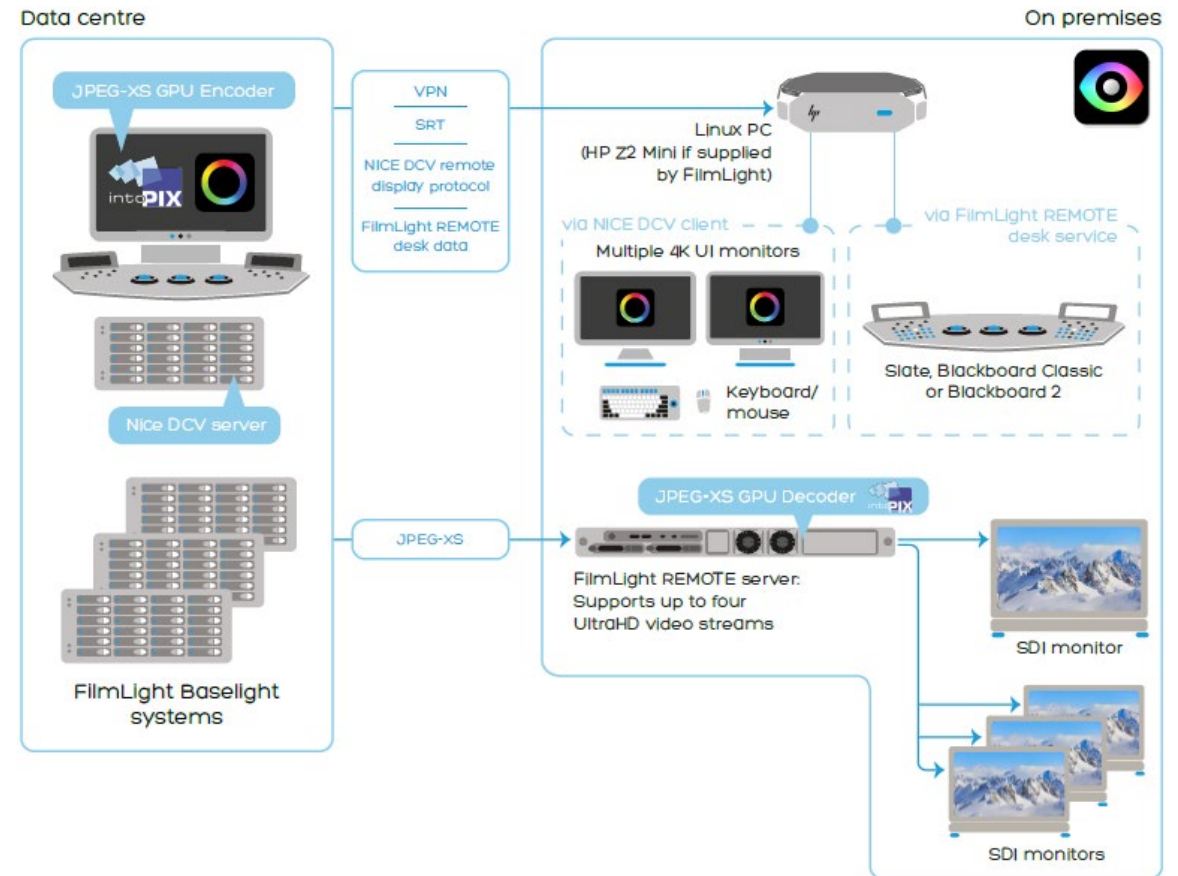


FilmLight

FilmLight REMOTE with integrated JPEG XS

Complete remote color grading solution providing true high-quality, low latency monitoring.

- Makes remote creative image manipulation and monitoring truly possible.
- Integrated JPEG-XS encoding and decoding ensures a high-quality, low latency video stream to the remote end where a FilmLight desk service also provides support for a control surface.
- Includes support for multiple UI monitors, mouse and keyboard as well as control surface.





IP/SDI Multi-Channel Processor FA-1616

Software-Defined"

Anything In, Anything Out. Flexible, Scalable, Future-ready.

- Interfaces Video: HD/3G/12G-SDI, ST 2022-6, ST 2110
Audio: Analog, AES, MADI, Dante
Others: GPI, LTC, RJ-45
- Inputs/Outputs Max. 16 inputs, 16 outputs
- Video Format 4K: 2160p / 60, 59.94, 50, 30, 29.97, 25, 24, 23.98
3G/HD: 1080p / 60, 59.94, 50, 30, 29.97, 25, 24, 23.98
1080PsF / 30, 29.97, 25, 24, 23.98
1080i / 60, 59.94, 50
720p / 60, 59.94, 50, 30, 29.97, 25, 24, 23.98
- IP/SDI Gateway
- Converters HD $\leftrightarrow$ 4K, 2SI $\leftrightarrow$ SQD, HDR $\leftrightarrow$ SDR etc.
- Control Protocols Ember+, NMOS, SNMP(monitored only)
- Sync selectable BB or PTP per each processor block





LDX 100 Series Cameras

5x JPEG XS codecs are integrated in the camera head and can be activated via a software option

Compression ratio can be selected between 5:1 and 20:1

Available in full size and compact camera form factor

- Reduced bandwidth requirements for remote productions, reduce network cost.
- Ultra low latency, offer uncompromized operation in any live applications.
- Integrated encoding reduce amount of external equipment, easier to set up and minimized latency.
- Full redundancy from the camera to the IP network, for improved security.





K-Frame XP Video Production Switcher

New advanced IP I/O Cards for the K-Frame XP Series.

New generation IP I/O cards with JPEG XS encoding/decoding.

- Supporting the most demanding UHD/HD and HDR/SDR applications.
- Reduced bandwidth requirements for remote productions, reduced network cost.
- Ultra low latency, offers uncompromized operation in any live applications.
- Integrated encoding reduces the amount of external equipment, easier to set up, and minimizes latency.

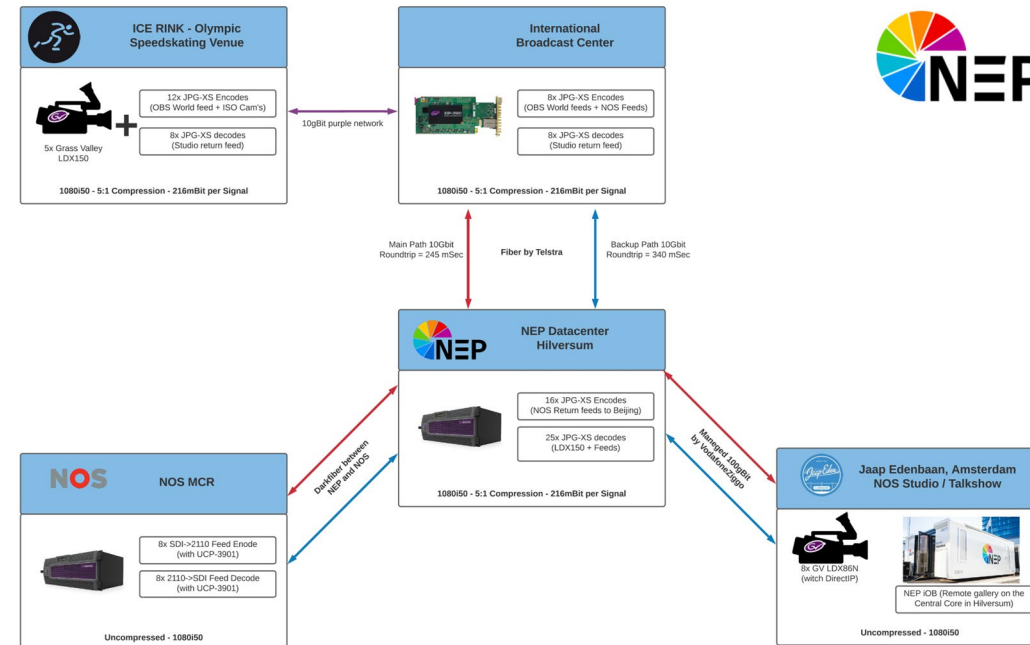




Remote application with LDX 150 Cameras

NEP The Netherlands used 5x LDX 150 cameras with integrated JPEG XS encoding for a remote production between Beijing and Hilversum.

- Reduction in the number of people who had to travel.
- Signals from the remote site could be easily integrated with the locally generated signals.
- Fully redundant IP connection for highest security.



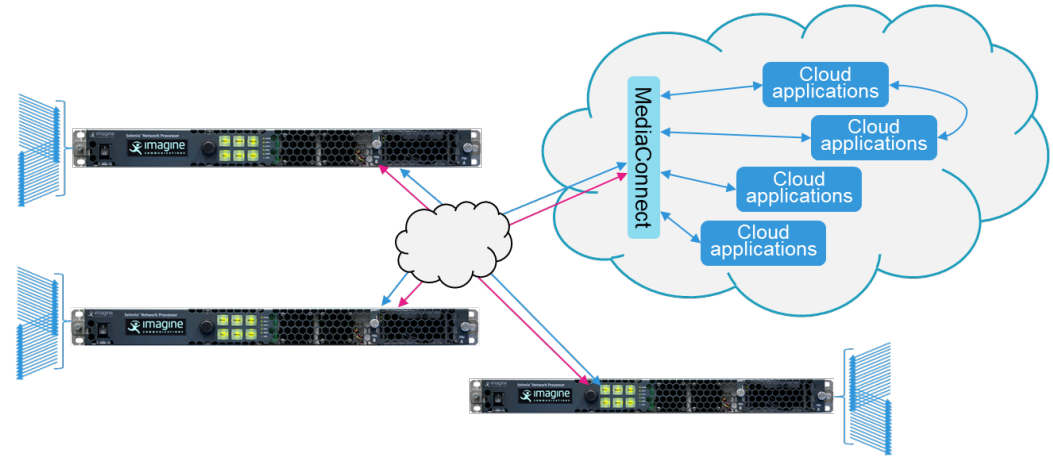


Selenio Network Processor (SNP)

Imagine's SNP is a comprehensive HD/UHD/HDR video processing platform that includes full support for JPEG XS encoding and decoding (compliant with VSF TR-08 and TR-07).

Each SNP unit is capable of handling up to 32 channels of 1080p JPEG XS encoding or decoding. It supports SDI, SMPTE ST 2110-20, and SMPTE 2022-6 for uncompressed video inputs and outputs, along with JPEG XS over IP using VSF TR-08.

JPEG XS enables SNP users to connect facilities with production-quality video, seamlessly bridging in-plant ST 2110-20 and inter-facility TR-08 workflows. This allows transport of dozens of HD signals over cost-effective 10G circuits.

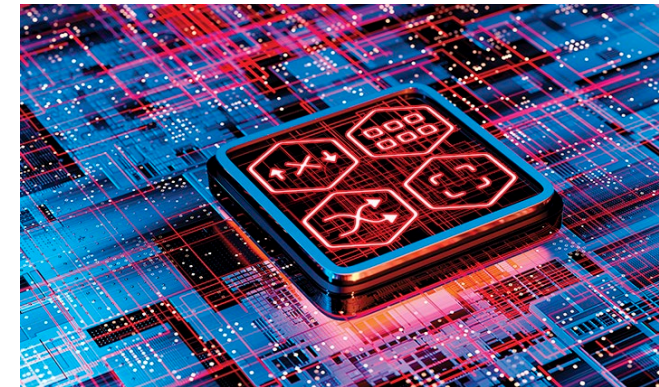




HOME Apps – Server-based Processing Platform

Purchasing bespoke hardware that may be obsolete faster than we like is turning into a potentially costly gamble. Meet Lawo's HOME Apps—the abstraction of broadcast and media functionality from the IT hardware that does the compute heavy lifting. When you need it, where you need it, with a revolutionary commercial model.

- Cater to all formats and requirements (HD, 3G, 12G) at the click of a button.
- Mix and match the SMPTE 2110, JPEG XS, NDI®, SRT, and Dante protocols on a single network.
- Decide for yourself whether and how much to invest upfront.
- JPEG XS compression ratios: 5:1 – 36:1, visually lossless up to 10:1
- Remain nimble despite tight budget control.
- One overarching solution for private datacenters and public clouds caters to the building blocks of your processing infrastructure.





JPEG XS License for Lawo .edge

An edge computing application for bandwidth-critical remote workflows, this software-licensable option for new and existing .edge users provides broadcast-grade support for JPEG XS compression encoding and decoding up to 20:1. A maxed-out .edge unit with .jpegxs licenses offers an impressive number of ultra low-latency HD/3G and UHD instances that run alongside .edge's existing SDI input functionality, including audio shuffling as well as licensed add-on options. A decoding downscale function is built in. Depending on how many compressed streams are required, operators can conveniently choose from several license configurations for each .edge processing blade. Also licensable via Lawo Flex Subscriptions.

- Up to 20:1, reduces overall infrastructure and IP network congestion at source
- Enables remote workflows thanks to highly efficient, lossless compression via WAN and LAN
- Multi-format capable: HD, 3G and UHD with HDR support (8K-ready)
- Industry-grade interoperability: support for SMPTE ST2110-22 and NMOS (requires HOME and a NMOS Exporter license)
- Built-in decoding downscaler





Edge One – Converged Video & Audio Stagebox

Edge One is a stagebox with combined audio and video connectivity for a vast range of applications. A SMPTE ST2110 native, Edge One provides analog, MADI and USB audio connectors, video connectivity (SD up to UHD HDR) on SDI and HDMI, a 32 x 16 audio mixer with audio DSP and AutoMix, video frame sync, JPEG XS encoding and decoding, PoE, and a lot more. Edge One is available in three convenient packages: Audio, Video, and Audio + Video.

- Analog, MADI (with SRC) and class-compliant USB-C audio connectivity, plus mc²-grade DSP.
- SDI (bidirectional micro HD-BNC) and HDMI video connectivity.
- Three packages that can be expanded via perpetual licenses or credit-based Flex subscriptions.
- JPEG XS compression ratios: 5:1 – 36:1, visually lossless up to 10:1
- IP connectivity: Ethernet (with PoE), SFP, bandwidth of up to 25Gbps.
- Converged audio and video connectivity in a compact and lightweight housing (use with bumpers, rack ears or mounting bracket).



Leader

WAVEFORM MONITOR / LV5600-SER33 JPEG XS

The LV5600W is a 'True-Hybrid' waveform monitor compatible with 4K/HD/SD-SDI signals and UHD TV/HD/SD IP signals.

The LV5600W to analyze SMPTE ST 2110-22 (JPEG XS) streams, decode HD and 4K. It can simultaneously measure three type of signals in HD mode, SMPTE ST 2110-22 (JPEG XS), SMPTE ST2110-20 (Uncompressed) and HD-SDI, allowing each signal to be displayed and compared simultaneously. Analyze and display the headers of JPEG XS packets to check JPEG XS format information and compression level information. Test pattern signals for compressed HD and 4K video in SMPTE ST 2110-22 (JPEG XS) can be transmitted. This test signals can also be configured with compression parameters, etc. The receiver and transmitter functions of the JPEG XS are NMOS-compatible.



Leader

RASTERIZER / LV7600-SER33 JPEG XS

The LV7600W is a 'True-Hybrid' rasterizer compatible with 4K/HD/SD-SDI signals and UHDTV/HD/SD IP signals.

The LV7600W to analyze SMPTE ST 2110-22 (JPEG XS) streams, decode HD and 4K. It can simultaneously measure three type of signals in HD mode, SMPTE ST 2110-22 (JPEG XS), SMPTE ST2110-20 (Uncompressed) and HD-SDI, allowing each signal to be displayed and compared simultaneously. Analyze and display the headers of JPEG XS packets to check JPEG XS format information and compression level information. Test pattern signals for compressed HD and 4K video in SMPTE ST 2110-22 (JPEG XS) can be transmitted. This test signals can also be configured with compression parameters, etc. The receiver and transmitter functions of the JPEG XS are NMOS-compatible.



macnica

MPA1000 Module / ME10 SoC

The Macnica MPA1000 is the IPMX system on a module based on Macnica's ME10 SoC that allows AV over IP manufacturers to design IPMX-compliant equipment that converts HDMI to 1GbE IPMX.

- HDMI 2.0 over 1GbE IPMX.
- Super-low latency with high-quality visually lossless video.
- Full stack solution with RESTful API, customizable web application, and scripting environment for additional features and functionalities.
- Launch Kit available for evaluation and development.





ConvertIP

ConvertIP enables the latest IP video workflows: ST-2110 and IPMX. Its applications include encoding, displaying, monitoring, and transmitting compressed (JPEG XS) and uncompressed IP and baseband signals.

- Adopt ST 2110/IPMX workflows, including monitoring, conversion, and IP-to-IP bridging (1GB, 10 GB, 25GB) with HDMI
- Designed for broadcast production with SDI and HDMI support
- NMOS support for signal routing and management
- Intel® SDM form factor for display integration
- Flexible – Daisy Chain + PoE



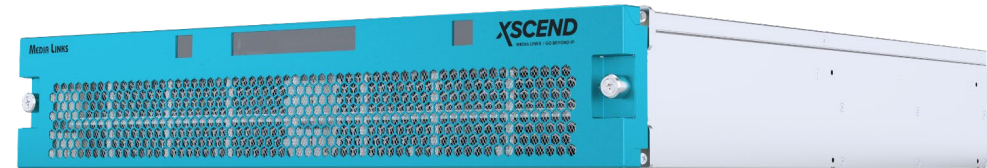


Xscend IP Media Platform

2RU & 1RU IP Media Platform capable of transporting up to 128 contribution quality media services across both managed and unmanaged IP networks. Xscend uses JPEG-XS compression for unsurpassed image quality and low latency transport, and will be deployed for the upcoming 2026 Olympics in Italy this winter.

Xscend's adaptable, software-defined, media-tuned architecture accommodates ever-evolving advances in:

- Network Protocols
- User Defined Workflows
- Physical Interfaces
- Compression Codec Algorithms
- Video Formats



MediaKind

Beam RX1 & CE1

Experience Unmatched Broadcasting Efficiency: MediaKind's Beam Integrates intoPIX JPEG XS, for the Highest Quality, ultra-low latency encode, decode, and transcode.

- Achieve low-latency video contribution with visually lossless quality.
- Utilize JPEG XS light compression in a pure software environment.
- Achieve PSNR measurements exceeding 50dB using MediaKind Beam SW encoding.
- Reduce power consumption by up to 40%.





JPEG XS App for the Nimbra 600

Cost effective and ultra-reliable JPEG XS processing for 1/10gbe ip media.

Compact JPEG XS encoding and decoding of HD and UHD-4K media. JPEG XS is the perfect replacement or complement to fully uncompressed workflows. Combine the JPEG XS App with any of the other Nimbra virtual functions to build your IP media network.

- Relied upon for national contribution of mission-critical services and major global sports events.
- Alternative or complement to uncompressed video for all ST2110 and SDI workflows.
- Add UHD-4K workflows while saving bandwidth but not making quality or latency compromises.
- Ultra-low, millisecond level, encode-to-decode latency with 85% to 95% bandwidth savings.

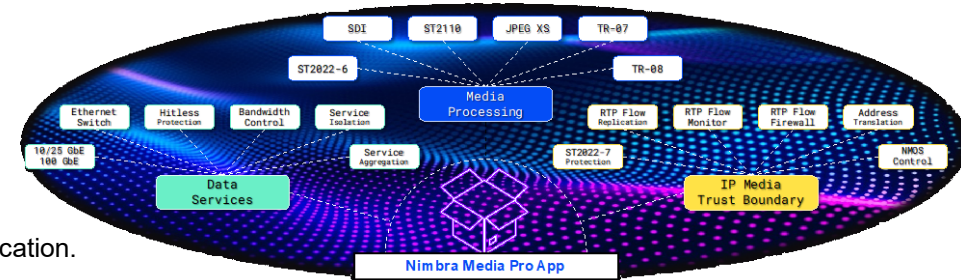




Media Pro App with JPEG XS for Nimbra 600

Combine safe IP networking, protected data workflows, and JPEG XS in one application. JPEG XS encoding and decoding is now available for Net Insight's award-winning media pro app family with IP media trust boundary. This fully open and standards-based IP media product aggregates, monitors, and protects all media and data workflows. The latest function update allows users to use ultra-low latency JPEG XS compression to reduce bandwidth and infrastructure costs.

- Compress UHD-4K or HD video to/from JPEG XS with ST2110, SDI or VSF TR-07 handover
- Combine video compression with other media flows and data services in one application
- Safely and reliably connect IP networks to other IP networks using SMPTE RP-2129
- Control all flows including JPEG XS compressed flows, with AMWA NMOS IS-04/05





JPEG XS App for the Nimbra 1000

Cost-effective and ultra-reliable JPEG XS processing for 100gbe IP media.

Combine Nimbra 1060's high density 1.2Tbps media networking with JPEG XS encoding and decoding of HD and UHD-4K media. JPEG XS is the perfect replacement or complement to fully uncompressed workflows. Combine the JPEG XS App with any of the other Nimbra virtual functions to build your 100GbE IP media network.

- Relied upon for national contribution of mission-critical services and major global sports events
- Alternative or complement to uncompressed video for all ST2110 and SDI workflows
- Add UHD-4K workflows while saving bandwidth but not making quality or latency compromises
- Ultra-low, millisecond level, encode-to-decode latency with 85% to 95% bandwidth savings



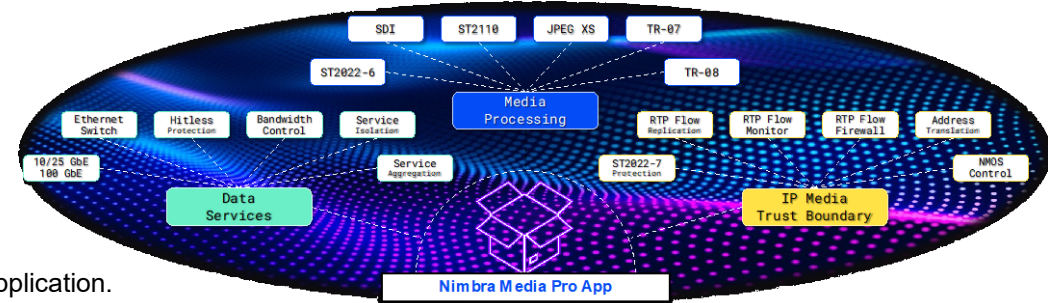


Media Pro App with JPEG XS for Nimbra 1000

Combine safe IP networking, protected data workflows and jpeg xs in one application.

100GbE JPEG XS encoding and decoding is now available for Net Insight's award-winning Media Pro App Family with IP Media Trust Boundary. This fully open and standards-based IP media product aggregates, monitors, and protects all media and data workflows. The latest function update allows users to use ultra-low latency JPEG XS compression to reduce bandwidth and infrastructure costs.

- Compress UHD-4K or HD video to/from JPEG XS with ST2110, SDI or VSF TR-07 handover
- Combine video compression with other media flows and data services in one application..
- Safely and reliably connect IP networks to other IP networks using SMPTE RP-2129
- Control all flows including JPEG XS compressed flows, with AMWA NMOS IS-04/05





Nevion Virtuoso

Widely deployed across the globe, Virtuoso is a standards-based, virtualization-ready, software-defined media node that can perform a variety of real-time media transport, processing, and monitoring functions in the converged IP LAN/WAN network.

Virtuoso was used in:

- The world's first live deployment of JPEG XS (2019).
- The world's first JPEG XS use in intercontinental live remote production (2019)
- Functionality easily modified in the field through software
- Offers adaption (SDI/ST2110/ST2022-6), transport protection (e.g. ST2022-7), video encoding/decoding (e.g. JPEG XS), UDC, audio processing, audio mixing, IP media trust boundary, and much more
- JPEG XS: SDI and ST2110 (TR-07 and TR-08), up to 32 HD channel or 16 UHD channel encoding/decoding in one 1RU appliance, with 10G/25G/100G aggregation; proven interoperability



NETWORKED **LIVE**



Virtuoso

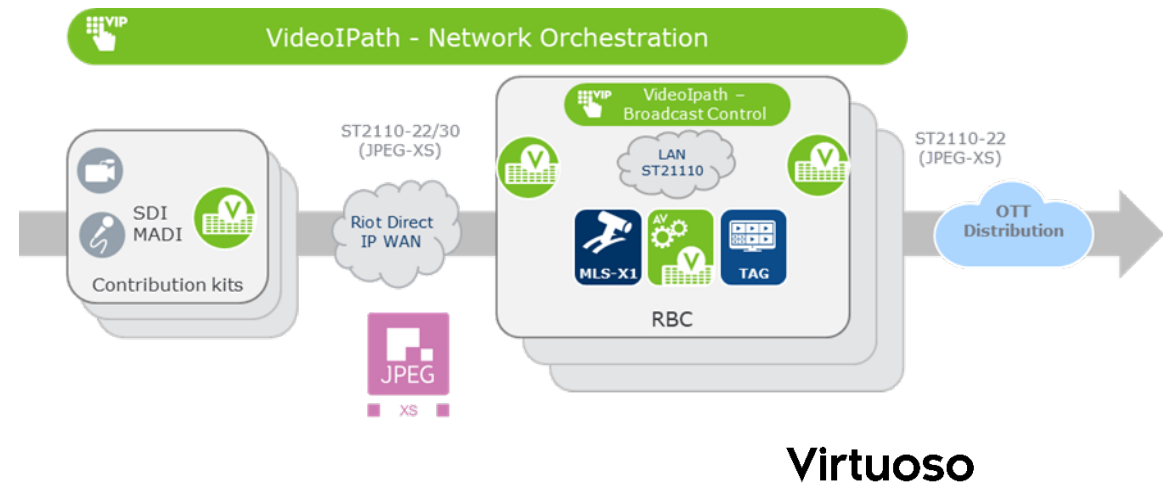


Riot Games “follow-the-sun” e-sport remote production

Remote production of e-sport events around the world, from 2 (eventually 3) interconnected remote broadcast and content production centers (RBC) in Dublin (Ireland) and Seattle (USA).

Nevion Virtuosos with JPEG XS used to transport video in real-time from venues to the RBCs,

- Consolidation of production staff into centralized facilities
- Fewer staff and equipment at venue
- Seamless handoff between staff/facilities
- High resilience





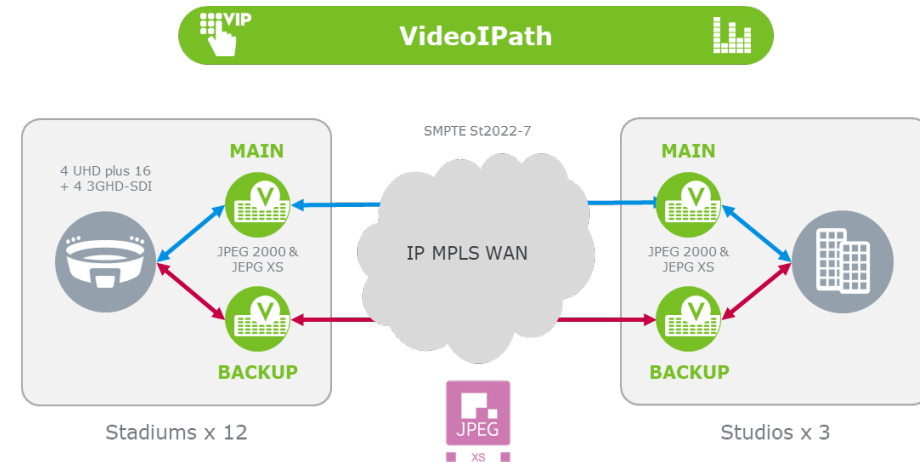
Viacom18 contribution for TATA India Premier League cricket

Multi-lingual remote production of the Indian Premier League (IPL) , the second most valuable sports league brand in the World (after NHL),

Nevion Virtuoso with JPEG XS used to transport signals from venues to the production centers,

- Solution delivered in 3 weeks
- Able to provide 4K/UHD coverage in 12 languages to viewers cost efficiently with remote production

NETWORKED **LIVE**



Virtuoso



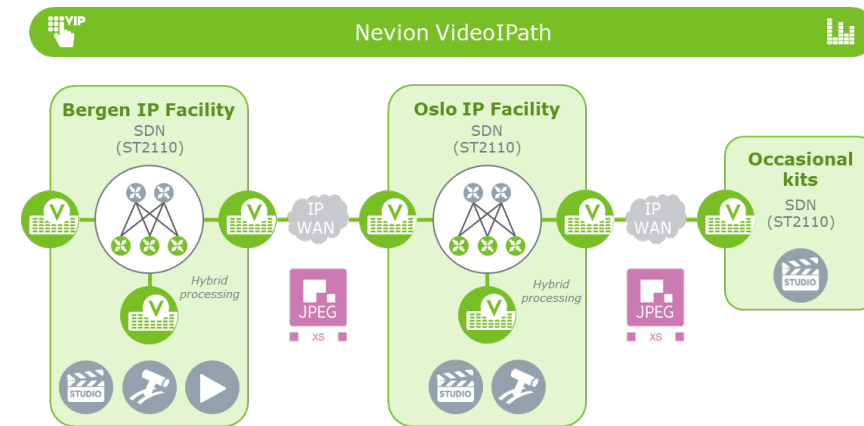
TV 2 Norway multi-Site IP Production and more

Following the relocation of production facilities in Bergen and Oslo (2017), aimed to create a more flexible platform that reduces the impact of distance.

Project initially used Nevi on Virtuoso JPEG 2000, but moved to JPEG XS on the same platform (2021),

- Resources (talent, equipment and locations) to be shared across all locations
- More flexible, responsive and cost-effective production
- Deep partnership built on trust that enables TV 2 to continuously improve its business and focus on content creation

NETWORKED **LIVE**



Virtuoso

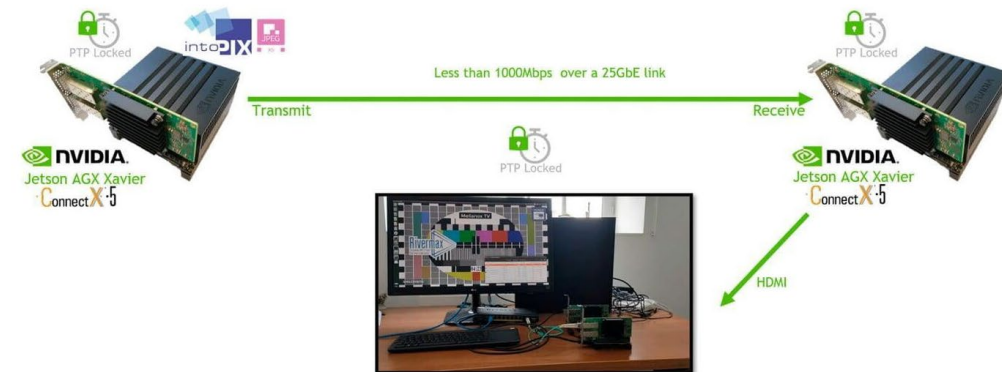


NVIDIA Rivermax SDK compliant with intoPIX FastTicoXS SDK

NVIDIA Rivermax is a unique IP-based solution for media and data streaming applications that leverages NVIDIA Ethernet NICs.

Interfacing with intoPIX FastTicoXS SDK, it can handle the streaming of low latency compressed JPEG XS SMPTE 2110-22 video.

- Safeguards all advantages of an uncompressed stream such as ultra-low latency, and high quality.
- Offers a significant bandwidth reduction with real-time GPU encoding/decoding in HD, 4K, or 8K.
- Turnkey solution for developers to support the new JPEG XS standard.



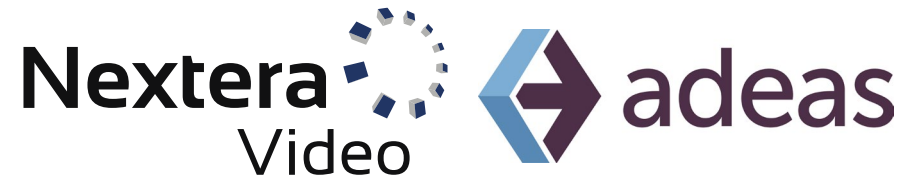
Panasonic CONNECT

AK-UCX100GSJ

The new generation CCU-less studio camera equipped with rich IP interfaces

- The AK-UCX100GSJ can be operated as a standalone camera head free from the conventional need for a Camera Control Unit (CCU). Or, if required in an on-site environment, it can be operated in combination with the AK-CFA100 Camera Fiber Adapter or an AK-UCU700 Series CCU.
- The camera is compatible with the SMPTE ST 2110 standard for high-quality, low-latency IP transmissions, and is also capable of 4K uncompressed and JPEG XS compressed transmissions. Furthermore, SMPTE ST 2022-7 compatibility enables redundant operation without a CCU
- Equipped with a large 19.29-megapixel MOS sensor, the AK-UCX100GSJ achieves a resolution of 2,000 TV lines (TVL), both horizontally and vertically, for exquisitely detailed reproduction. In addition, the wide dynamic range and color gamut of HDR (HLG)/BT. 2020 faithfully captures stage productions in full color for immersive video imagery.

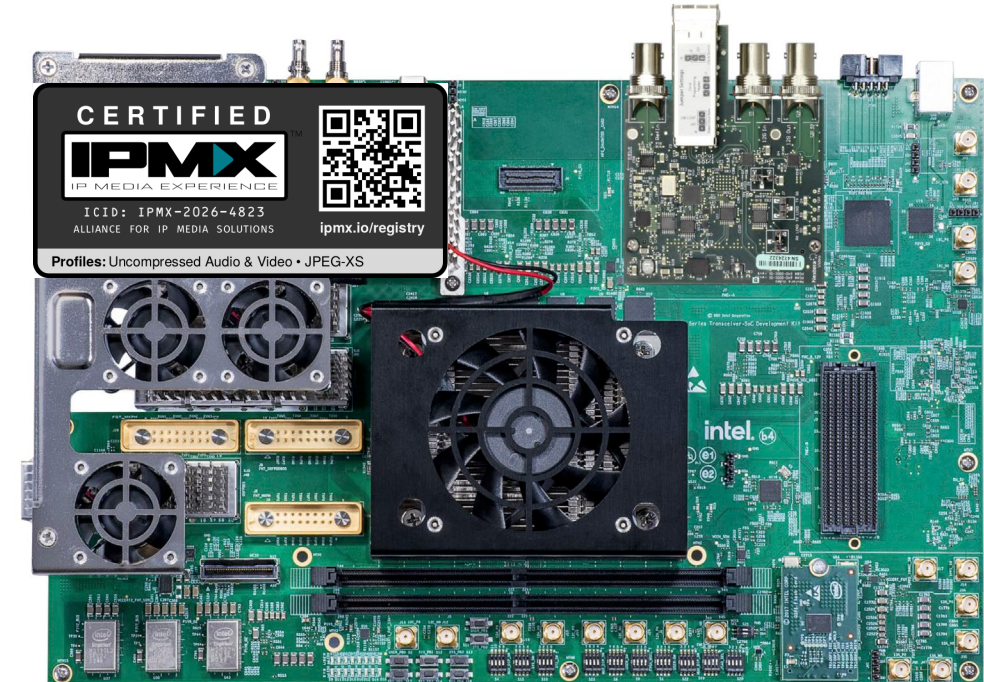




Nextera-Adeas IPMX Certified HDMI IPMX TX/RX IP Reference Design for Altera FPGAs & SoCs

The Nextera-Adeas IPMX Certified reference design and IPMX/2110 IP cores integrate intoPIX JPEG-XS to transport 4Kp60 4:4:4 over 1 Gb on Altera FPGAs & SoCs

- Adds IPMX, 2110, and NMOS capabilities to new or existing OEM products quickly and easily
- Included reference design contains all software, drivers and daemons, control API, and web GUI
- Resolution and network speed independent, small FPGA footprint
- IPMX Certified and JT-NM Tested for interoperability confidence





Nextera-Adeas IPMX Certified HDMI IPMX TX/RX IP Reference Design for AMD FPGAs & SoCs

The Nextera-Adeas IPMX Certified reference design and IPMX/2110 IP cores integrate intoPIX JPEG-XS to transport 4Kp60 4:4:4 over 1 Gb on AMD FPGAs & SoCs

- Adds IPMX, 2110, and NMOS capabilities to new or existing OEM products quickly and easily
- Included reference design contains all software, drivers and daemons, control API, and web GUI
- Resolution and network speed independent, small FPGA footprint
- IPMX Certified and JT-NM Tested for interoperability confidence



Panasonic CONNECT

AK-PLV100GSJ

4K PL-mount Studio Camera for Live Cinematic Video with Shallow Depth of Field

- Equipped with a large format, 5.7K Super 35mm sensor and PL Lens mount to accommodate cinema lenses for shallow-depth of field.
- Two way to support SMPTE ST2110 including JPEG XS output:
 - 1) Uncompressed 4K/HD or JPEG XS (4K/HD) is possible with a CCU.*¹
 - 2) Uncompressed HD or JPEG XS (4K/HD) is possible directly from the AK-PLV100GSJ camera head without connecting to a CCU. *²

*¹ When connection with a CCU AK-UCU710 or a CCU AK-UCU700 and a ST2110 option AK-NP701G.

*² This feature for JPEG XS is planned for the future.

Powered by
VARICAM

Super35



Panasonic CONNECT

AW-UE160W/K

New generation 4K PTZ Camera for an era of enhanced creativity and the pursuit of visual expression

- Uncompromising shooting performance and operability including high sensitivity of F14/2000 lx, phase detection autofocus and optical low-pass filter for moiré reduction.
- Realize next-generation video production with various shooting methods and functions including ST 2110 ^{*1}, JPEG XS ^{*2}, 2x high speed output and 5G mobile router.
- Stress of shooting on-site can be reduced with various IF/protocol support including NDI® and SRT and waveform and horizontal level gauge display functions.

^{*1} Separately sold software key AW-SFU60 is required.

^{*2} Firmware update may be required.

^{*NDI®} is a video connectivity technology and is registered as a trademark by Vizrt NDI AB in the United States and other countries.



plexusAV

a mesh of human + network

PlexusAV P-AVN-4

The P-AVN-4 series from PlexusAV is a transceiver harnessing the power of IPMX to provide open-standards-based transport with JPEG XS, JPEG XS FIP, H.264 and HEVC video codecs.

- IPMX specifications and standards addresses the need for a single set of common, ubiquitous standards-based protocols that ensure interoperability for AV-over-IP.
- The AVN4 supports both HDMI inputs and outputs with HDCP support, USB-C video inputs and analog audio I/O. An HTTP API, IR and RS232 are included providing easy system connectivity.
- Easily configured as encoder or decoder of JPEG XS, JPEG XS FIP and simulcast H.264 and HEVC streams



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PlexusAV P-AVN-4E

The P-AVN-4E from PlexusAV is an IPMX encoder harnessing the power of open standards to provide interoperable AV-over-IP transport using JPEG XS (including JPEG XS FIP), H.264 and HEVC video codecs.

- IPMX specifications and standards address the need for a single set of common, ubiquitous standards-based protocols that ensure interoperability for AV-over-IP.
- The AVN-4E supports HDMI and USB-C video inputs with HDCP support and analog audio I/O. An HTTP API, IR and RS232 are included, providing easy system connectivity.
- Designed for high-performance video encoding, the AVN-4E delivers ultra low-latency video using JPEG XS, enabling efficient and reliable streaming across IP networks.



plexusAV

a mesh of human + network

PlexusAV P-AVN-4D

The P-AVN-4D from PlexusAV is an IPMX decoder harnessing the power of open standards to provide interoperable AV-over-IP transport using JPEG XS (including JPEG XS FIP), H.264 and HEVC video codecs.

- IPMX specifications and standards address the need for a single set of common, ubiquitous standards-based protocols that ensure interoperability for AV-over-IP.
- The AVN-4D receives IPMX streams and outputs video over HDMI with HDCP support, along with analog audio I/O. An HTTP API, IR and RS232 are included, providing easy system connectivity.
- Designed for high-performance video decoding, the AVN-4D delivers ultra low-latency video using JPEG XS, enabling efficient and reliable playback across IP networks.



plexusAV

a mesh of human + network

PlexusAV P-AVN-6-S

The P-AVN-6-S from PlexusAV is an uncompressed 25G transceiver that extends PlexusAV's open-standards portfolio to high-bandwidth AV-over-IP transport.

- Delivers simultaneous ST 2110 and JPEG XS streaming over a single 25G uncompressed transceiver, giving integrators flexible, standards-based transport across broadcast and proAV workflows.
- Complements the IPMX-certified AVN-4/E/D family, extending PlexusAV's open-standards ecosystem to high-bandwidth applications.
- **Eco-mode** reduces power consumption and carbon emissions for long-term energy savings.

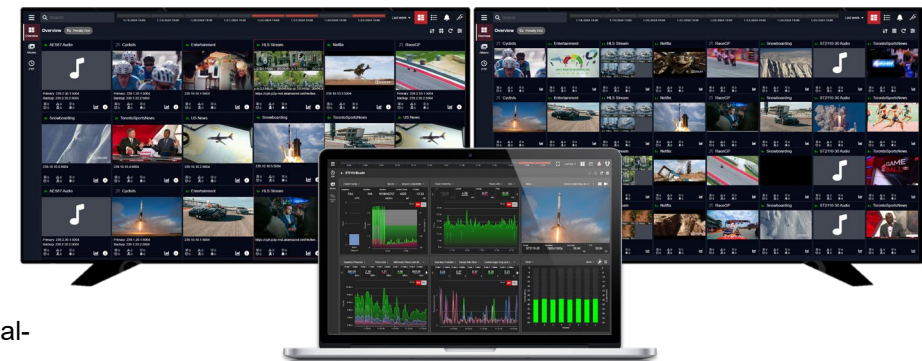


PROVIDIUS

Providius BMG - IP Media Analysis and Fault Detection

BMG analyzes packet details of each IP media service and provides precision fault detection in real time. Constructed for scale, a single BMG can monitor hundreds of services concurrently. Designed with flexibility in mind, BMG can be deployed on COTS hardware, virtual machine, and cloud, eliminating proprietary vendor lock-in.

- **Bulk Service Monitoring:** monitor up to 200+ media services concurrently with a single BMG.
- **Versatility:** monitor a variety of compression formats including JPEG XS
- **Autonomous Fault Detection:** quickly identify faults and receive notifications in real-time.
- **Compliance Monitoring:** measure and detect compliance with industry standards and regulations.
- **No Proprietary Hardware Required:** software that can be deployed anywhere on COTS hardware or virtual machine.





MuoN B - IP ST2110 JPEG-XS Encode/Decode

Miniature SFP based converter capable of encoding or decoding two HD/3G/UHD signals using JPEG-XS (TR-08). 32 IP ST2110 native converters can be housed inside the VirtU-32 (1RU) frame for a total of 64 converters. Enhanced with a 50 ms buffer to cope with jittery networks.

- Optimized exchange of multiple signals between sites
- Reduce bandwidth transmission of UHD signals without compromising quality
- Lowest footprint in the market with 64 converters in a single RU space
- Highly modular and low failure blocks

VirtU-32 housing frame



MuoN B
Software-Define SFP converter



FusioN 3B/6B – Edge JPEG-XS Encode/Decode

Miniature edge device converters capable of encoding or decoding two HD/3G/UHD signals using JPEG-XS (TR-08). The modular I/O frame allow the support of SDI, HDMI or fiber optical I/Os. Enhanced with a 50 ms buffer to cope with jittery networks.

- Optimized exchange of multiple signals between sites
- Reduce bandwidth transmission of UHD signals without compromising quality
- Can be installed at the back of a monitor to provide direct JPEG-XS decoding to HDMI or SDI output
- Can be used near remotely located equipment removing the need for additional extenders



FusioN 3B
Software-Defined
Edge converter



FusioN 6B
Software-Defined
Edge converter



Auraro UHD Non-Linear Editing System

The Aurora Ultra HD non-linear editing system can be used for video and audio editing, visual effects packaging, subtitle creation, and audio processing. It supports various video encoding formats, including JPEG XS.

- This workflow can be used for post-production requirements in 4K and even 8K projects, such as channel program packaging, special documentaries, and advertisements.
- Thanks to intoPIX's high-performance JPEG XS codec, the production of 8K video projects has become even smoother

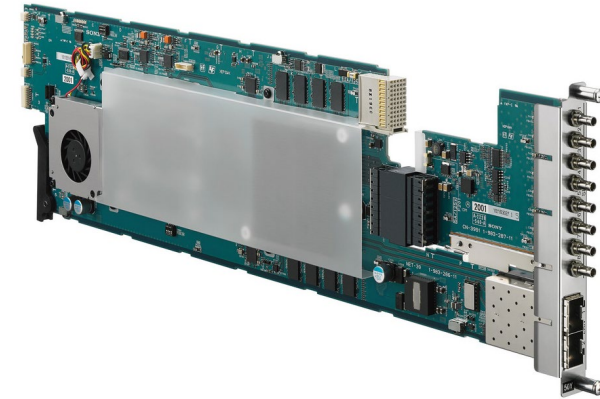


SONY

NXLK-IP50Y

SDI-IP converter board.

- Eight 1.5/3G-SDI bi-directional ports plus dual SFP28 (25Gb Ethernet) ports including network connection redundancy.
- Compatible with ST 2110-20/30/40 streaming formats and offering very low latency signal conversion
- Ideal for integration in real-time IP Live production environments.

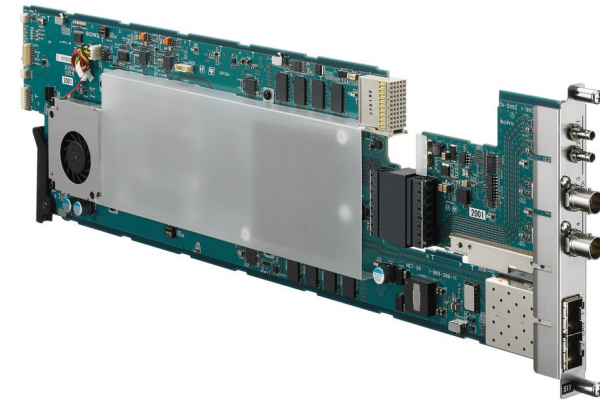


SONY

NXLK-IP51Y

SDI-IP converter board

- Two 1.5/3G-SDI bi-directional and two 12G-SDI x2 bi-directional ports, plus dual SFP28 (25Gb Ethernet) ports including network connection redundancy.
- Compatible with ST 2110-20/30/40 streaming formats and offering very low latency signal conversion
- Ideal for integration in real-time IP Live production environments.



SONY

HDCE-TX30

IP camera extension adaptor.

- The HDCE-TX30 IP camera extension adaptor reduces the cost and complexity of remote production, simplifying connection of Sony HDC 3500/3100 and HDC-2500/2400/1700 series system cameras to an SMPTE ST 2110 IP network.



SONY

HDCE-TX50

IP camera extension adaptor.

- The HDCE-TX50 IP camera extension adaptor reduces the cost and complexity of remote production, simplifying connection and dual transmission capability for Sony HDC-5500/5000 and HDC 3500/3100, HDC-2500/2400/1700 series system cameras to an SMPTE ST 2110 IP network.



SONY

BVM-HX3110

30.5-inch TRIMASTER HX™ Master Monitor

- High Luminance, Deep Black, Accurate & Wide Color Reproduction, Wide Viewing and Optional Fast Pixel Response Function.
- With a standard IP interface for SMPTE ST2110 signals, the BVM-HX3110 complements Sony's Networked Live ecosystem.
- Optional tool sets support for JPEG XS and SNMP.





PRISM SDI / IP hybrid Waveform Monitors

The PRISM SDI/IP hybrid waveform monitor supports up to four simultaneous HD / UHD / 4K programs across SDI, , NDI, ST2110-20, and ST2110-22 JPEG XS streams.

- Monitors four JPEG XS streams simultaneously for contribution link application
- AUX SDI output available for ST2110-20 / ST2110-22 / NDI SDI gateway
- Offers signal path testing with SDI / ST2110-20 / ST2110-22 test signal generator
- Supports NMOS IS-04/05 for sender and receiver





VICO-XI

VICO-XI enables conversion “IP to IP”, between uncompressed ST2110-20 IP streams and JPEG XS compressed ST2110-22 IP streams of 4K and HD video. The 1RU chassis can host up to two 4K channels.

- The VICO is a cost-effective and single box solution, ready for integration within your IP studio, OBVAN or IP remote site.
- A single 1RU, equipped with hot swappable redundant power supplies.
- Controllable through front-panel, web interface, SNMP and support NMOS





VICO-4L-XS

VICO-4L-XS enables JPEG-XS visually-loss-less conversion of 4K SDI video signals into ST2110-22 JPEG-XS stream, with ST2022-7 redundancy. The 1RU chassis can host up to two 4K channels.

- The VICO is a cost-effective and single box solution, ready for integration within your IP studio, OBVAN or IP remote site.
- A single 1RU, equipped with hot swappable redundant power supplies.
- Controllable through front-panel, web interface, SNMP and support NMOS





VICO-8L-XS

VICO-8L-XS enables JPEG-XS visually-loss-less conversion of 8K SDI video signals into ST2110-22 JPEG-XS stream, with ST2022-7 redundancy. The 1RU chassis can host up to two 8K channels.

- The VICO is a cost-effective and single box solution, ready for integration within your IP studio, OBVAN or IP remote site.
- A single 1RU, equipped with hot swappable redundant power supplies.
- Controllable through front-panel, web interface, SNMP and support NMOS





AI100

AI100 is a unique ST-2110 stream real-time analyzer and generator for compressed JPEG-XS(-22) and uncompressed (-20) video over IP, audio(-30) over IP, and ancillary (-40) IP streams, available in 3RU portable or 1RU chassis.

AI 100 supports ST-2022-7, NMOS, IPMX

- Real-time analysis and generation of ST2110 -20/21/22/30/40, ST-2059, ST-2022, supporting NMOS IS-04/05
- Status-check and in-depth analysis of JPEG-XS header, code stream, VS and CS boxes
- ST-2110 to SDI real-time converter/decoder (up to 8K, 4x 12G-SDI out)
- Signal Impairment / Error Generator



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