XPS Live Video Encoder Series

Real-Time 4K/UHD/3G/HD Video Encoder Module





XPS-EDGE video encoder module

XPS Live Video Encoder Series is Evertz' real–time high quality and low latency video encoder and decoder module for live streaming, cloud–based, REMI/remote production, OTT, and on–demand applications.

The XPS Live Video Encoder Series provides secure broadcast–quality video encoding at ultra–low latencies for mission–critical applications, supporting up to 4x simultaneous 1080p50/60 HD video encodes or decodes. It can be configured in software to switch between either a four–channel encoder, four–channel decoder or a combination of two encodes and two decodes. Additionally, the XPS Live Video Encoder Series supports up to 2160p50/60 4K UHD video resolutions with 16x channels of audio, with support for different compression standards such as H.265/HEVC or H.264 over any IP network.

The XPS Live Video Encoder Series also supports the latest patent–pending iTrak technology for multi–camera synchronization from multiple locations for cloud production using Evertz' BRAVO Studio.

Applications

- 4K remote contribution
- · Monitoring return feeds
- · Remote operation
- Remote monitoring
- · REMI and remote production
- Esports

- Live interviews
- Mission command and control
- IPTV distribution
- Government and military
- Educational institutions



MIO-XPS SCORPION video encoder module



Features & Benefits

- Real-time ultra-low latency encoding and decoding with highest video quality for 24/7 up-time applications
- High density with quad-channel encode or decode, standalone or rack mount chassis options
- Native support of protocols such as SRT/RIST/Zixi/RTMPS for streaming over lossy networks like the Internet
- High availability with dual power supply options
- Multiple form–factors to suit all applications



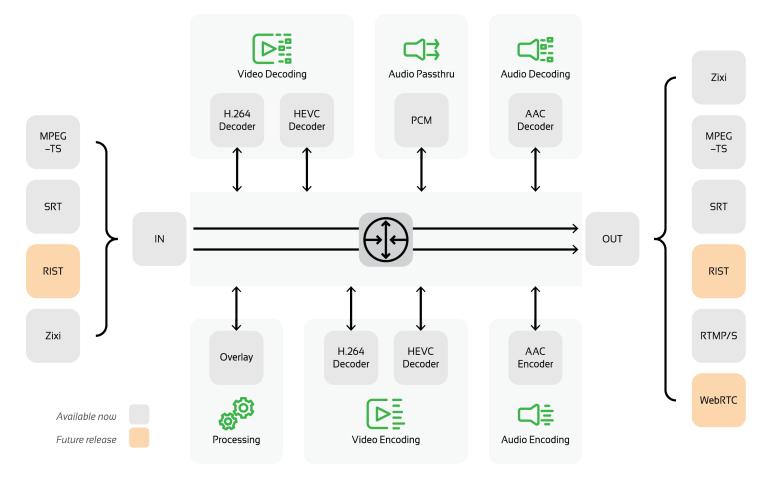




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Figure: high-level XPS functional diagram. Please contact Evertz Sales for more information.



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Specifications

Channels: 4x 3G-SDI or 1x 4K/UHD

Video Inputs/Outputs:

Standards: SD, HD, 3G, UHD (12G-SDI) Interfaces: 2x RJ-45 1GbE Streaming: Unicast, multicast Protocols: MPEG transport, SRT, RIST RTMPS

Codecs: H.265/HEVC, H.264

Chroma Subsampling: 4·2·0/4·2·2

Bit Depth: 8-bit, 10-bit
Audio: 16 channels per input
Embedded:

 SD:
 SMPTE ST 272M

 HD:
 SMPTE ST 299M

Compression: AAC LC

VANC:

SMPTE ST 2038 support

Control:

Interface: Ethernet or serial Management: HTTPS, SNMP, API,

VistaLINK® PRO, MAGNUM and VUE

Electrical (XPS-EDGE-HW):Power: 12V DC @ 48W

Physical (XPS-EDGE-HW):

Dimensions: 14.88" W x 1.85" H x 4.13" D

(378mm x 47mm x 105mm) Includes L—shaped brackets and rubber feet

Compliance (XPS-EDGE-HW):

Safety: TUV listed, complies

with CAN/CSA-C22.2 No. 62368-1:2014, UL 62368-1:2014, IEC 62368-1:2014 (Second Edition), IEC 60950-1:2005,

AMD1:2009, AMD2:2013

EMC/EMI: CISPR 32:2019/

EN55032:2020, CISPR 35:2016/ EN55035:2017, FCC Part 15 Subpart B, ICES-003:2020 **Ordering Information**

Standalone Ordering Information:

XPS-EDGE-1E-STRM Evertz Standalone Fanless XPS Streaming Encoder Appliance, H.264/HEVC, UHD/3G/

HD/SD-SDI to IP Single channel Video Encoder with SRT/RIST included.

XPS-EDGE-2E-STRM Evertz Standalone Fanless XPS Streaming Encoder Appliance, H.264/HEVC, 3G/HD/SD-SDI

to IP Dual channel Video Encoder with SRT/RIST included.

XPS-EDGE-3E-STRM Evertz Standalone Fanless XPS Streaming Encoder Appliance, H.264/HEVC, 3G/HD/SD-SDI

to IP Three channel Video Encoder with SRT/RIST included.

XPS-EDGE-4E-STRM Evertz Standalone Fanless XPS Streaming Encoder Appliance, H.264/HEVC, 3G/HD/SD-SDI

to IP Quad channel Video Encoder with SRT/RIST included

XPS-EDGE-1D-STRM Evertz Standalone Fanless XPS Streaming Decoder Appliance, H.264/HEVC, IP to

UHD/3G/HD/SD-SDI Single channel Video Decoder with SRT/RIST included.

XPS-EDGE-2D-STRM Evertz Standalone Fanless XPS Streaming Decoder Appliance, H.264/HEVC, IP to

3G/HD/SD-SDI Dual channel Video Decoder with SRT/RIST included.

XPS-EDGE-3D-STRM Evertz Standalone Fanless XPS Streaming Decoder Appliance, H.264/HEVC, IP to

3G/HD/SD-SDI Three channel Video Decoder with SRT/RIST included.

XPS-EDGE-4D-STRM Evertz Standalone Fanless XPS Streaming Decoder Appliance, H.264/HEVC, IP to

3G/HD/SD-SDI Quad channel Video Decoder with SRT/RIST included.

XPS-EDGE-1E1D-STRM Evertz Standalone Fanless XPS Streaming Encoder/Decoder Appliance, H.264/HEVC,

 $\label{lem:conder} \mbox{UHD/3G/HD/SD Single channel Video Encoder/Decoder with SRT/RIST included.}$

XPS-EDGE-2E2D-STRM Evertz Standalone Fanless XPS Streaming Encoder/Decoder Appliance, H.264/HEVC, 3G/HD/SD

2x2 channel Video Encoder/Decoder with SRT/RIST included

Modular Ordering Information:

5782XPS-HW Evertz Modular XPS Video Encoder and/or Decoder Hardware only (single slot) for use

in Evertz 570FR. Maximum of 2x2 bi-directional or four (4) unidirectional paths.

Channel Keys sold separately.

Channel Key Options:

XPS-STRM-CK-HEVC-422D-3G Single Streaming Channel Key HEVC/H.264 Decoder with SRT for 3G/HD/SD video formats

XPS-STRM-CK-HEVC-422D-3G-2 Dual Streaming Channel Key HEVC/H.264 Decoder with SRT for 3G/HD/SD video formats.

XPS-STRM-CK-HEVC-422D-3G-4 Quad Streaming Channel Key HEVC/H.264 Decoder with SRT for 3G/HD/SD video formats.

XPS-STRM-CK-HEVC-422E-3G Single Streaming Channel Key HEVC/H.264 Encoder with SRT for 3G/HD/SD video formats

XPS-STRM-CK-HEVC-422E-3G-2 Dual Streaming Channel Key HEVC/H.264 Encoder with SRT for 3G/HD/SD video formats.

XPS-STRM-CK-HEVC-422E-3G-4 Quad Streaming Channel Key HEVC/H.264 Encoder with SRT for 3G/HD/SD video formats.

Enclosures:

570FR 3RU compact high density distribution frame, holds up to 15x single-slot modules with

a 750W power supply

+570PS Redundant power supply for 570FR

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