

IP Here & Now

Software Defined Video Networking Solutions





IP Here & Now

Evertz is at the forefront of the IP revolution. Media organizations are facing the challenge of delivering more content in multiple formats to multiple platforms. IP enables media organizations to meet these new challenges in a cost-effective manner. Since the introduction of our Software Defined Video Networking (SDVN™) solutions in 2013, Evertz has been successfully deploying solutions to seamlessly transition broadcasters from SDI to IP. Look no further because Evertz IP is HERE and NOW.



Scalability

A move to IP allows media organizations to scale their system to any size, across all geographic regions, while future proofing for new formats and platforms.



Agility

An IP facility provides increased agility where media organizations can add or remove services quickly to maximize revenue and lower operational costs.

Flexibility

IP enables flexibility! Build a format agnostic facility to support various content types, multiple standards and streams for both compressed and uncompressed video.



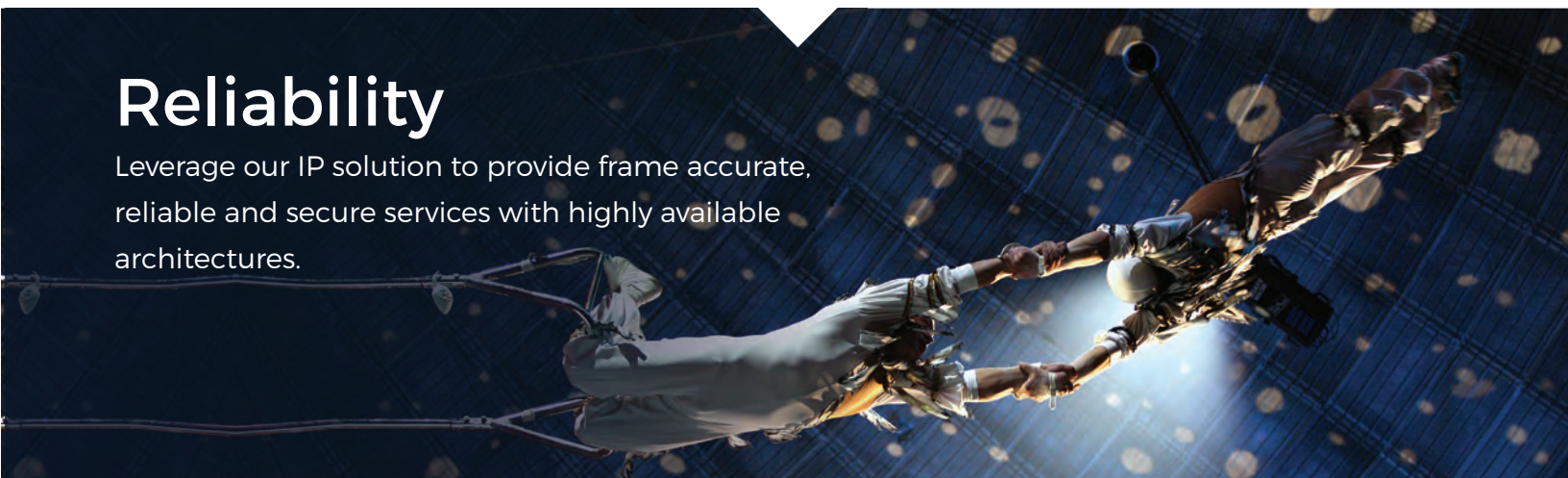
Proven

Evertz is the proven leader in IP. Delivering next generation facilities from live production to fully integrated IP playout centres - our SDVN solutions are trusted around the world.



Reliability

Leverage our IP solution to provide frame accurate, reliable and secure services with highly available architectures.



Visibility

IP provides a new and efficient way to manage broadcast media facilities. MAGNUM offers complete visibility and control of the facility at your fingertips



Switch Fabrics

Evertz offers a wide range of high capacity switch fabrics for all types of facilities. The 3080IPX is available in 16/32/64/128 ports and the EXE-VSR is available from 576 to 2034 ports. The switch fabrics use SFP+ technology to support 1/10/25/100GbE interfaces to meet any uncompressed video standard today and in the future. The EXE-VSR leverages IP and SDI philosophies to provide a redundant and scalable switching core that is unmatched in the industry. The switch fabrics are format agnostic, non-blocking, and ultra low latency which makes them ideal for live production

applications of any size. These switch fabrics enable smaller facilities to optimize workflows and global enterprises to share and distribute content over a wide area network.

When coupled with MAGNUM SDVN Orchestration and Control, Evertz switch fabrics are a resilient, scalable, and secure solution that meets any application in the broadcast facility.

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Tb/s

Available Switching
Capacity

10GbE
25GbE
100GbE

Flexible I/O Options

Media Gateways

Evertz' IP Media Gateways offer broadcasters a cost effective way to transition from SDI to IP. Evertz has wide range of IP media gateways that provides IP encapsulation and de-capsulation for video, audio, and metadata.

The 570IPG and evEDGE supports open formats and standards such as SMPTE 2022-6, SMPTE RDD 37 (ASPEN), VSF TR-03/04 or future standards like SMPTE 2110. The 570iTXE supports compress formats such as JPEG2000, H.264, MPEG-2, and HEVC. Additional IP Media

Gateways provide IP encapsulation / decapsulation of audio (using SMPTE ST 302 or AES67) and ancillary data (using SMPTE ST 2038).

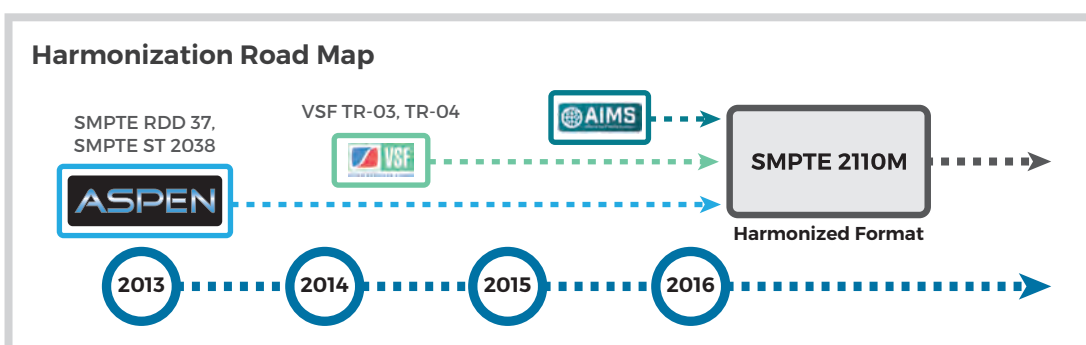
The 5700MSC-IP is a key component of Evertz' SDVN solution. It provides timing reference for hybrid SDI/IP architectures and all-IP facilities. It supports traditional analog and digital reference (bi- and tri-level) in addition to IEEE 1588 (PTP), SMPTE 2059-2, and Master PCR.

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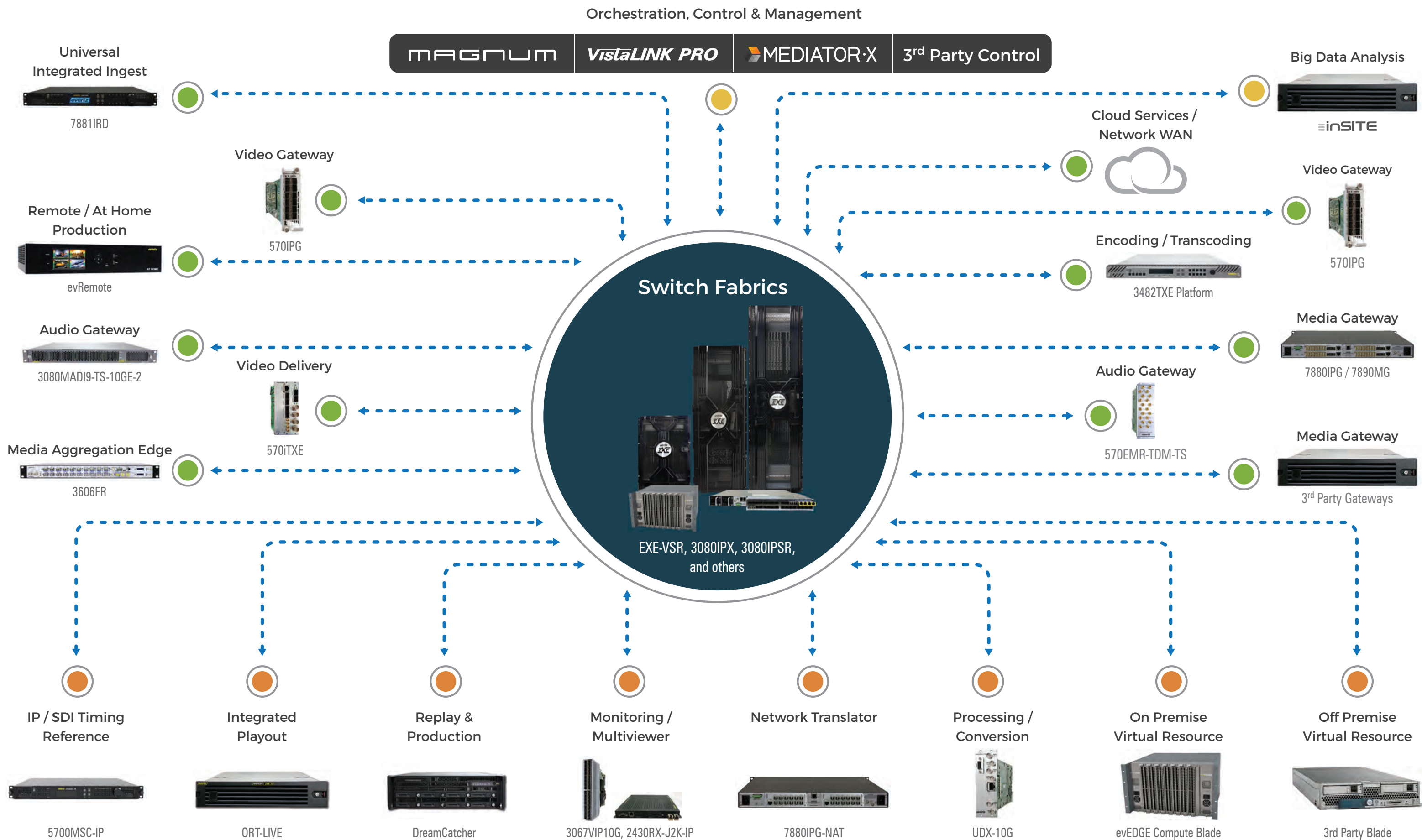
Video IP encapsulations /
decapsulations per 3RU

10GbE
25GbE
100GbE

Flexible I/O Options



Evertz IP Solutions



SDI IP

Support for hybrid
architectures

Big Data

Collect, store, and
correlate all data

Orchestration, Control, and Management

Evertz' Software Defined Video Networking (SDVN) solution is driven by MAGNUM. MAGNUM is the Orchestration and Control layer of the entire solution. It provides full control and visibility of the system which allows broadcasters to make the seamless transition from SDI to IP using familiar control surfaces. With advanced features such as discovery, path finding, bandwidth management, and 3rd party support, MAGNUM SDVN is a comprehensive control system.

VistaLINK PRO and inSITE provides unmatched visibility into the SDVN system. VistaLINK PRO is the network management system that monitors the health of the system via SNMP. VistaLINK PRO has an extensive library of support for Evertz equipment and 3rd party devices. inSITE enables broadcasters to leverage big data analytics to capture, store, correlate, and search machine logs from the devices in the system. This enables faster system level troubleshooting and performance analysis from a singular interface.

CLOUD READY

Virtualize resources on
on/off premises device

AGILE

Use dynamic
resources anytime

Pooled and Virtual Resources

Using IP in the facility enables workflow efficiency, agility and flexibility. With high capacity switch fabrics at the core, all resources are made available for any service. As the Orchestration and Control layer, MAGNUM connects resources via software control.

Video, audio, and ancillary processing devices become pooled resources that are shared throughout the facility. This includes: frame sync, colour correction, image enhancement, up/down/cross conversion for all major formats from SD to UHD, audio shuffling and delay. Other resources such production servers, replay servers, multiviewers, integrated channel layout and transcoding can be also

shared across the facility. This pooling of resources enables broadcasters to build dynamic facilities while managing capital and operational costs.

The evEDGE platform is the next generation of pooled resources. The evEDGE compute blades allow for common video, audio, and ancillary processing blocks to be virtualized. The hardware accelerated compute blades provide additional flexibility where resources are spun up/down on demand. Virtualized resources can be extended to on and off premise data centers for maximum agility.

Product Ordering Information

SDVN Orchestration & Control

MAGNUM-SDVN
Unified Facility Control

Network Management System & Analytics

VistaLINK Enterprise NMS
Network Management System for Enterprise

inSITE
Data Analytics Engine

High Capacity Switch Fabrics

EXE40-VSR
46Tb/s EXE Video Service Routing Platform

EXE28-VSR
23Tb/s EXE Video Service Routing Platform

EXE16-VSR
11Tb/s EXE Video Service Routing Platform

3080IPX-16-10G
Integrated Switching Fabric, 16 10GE port with 600Gb/s fabric bandwidth

3080IPX-32-10G
Integrated Switching Fabric, 32 10GE port with 600Gb/s fabric bandwidth

3080IPX-64-10G
Integrated Switching Fabric, 64 10GE port with 1.5Tb/s fabric bandwidth

Ethernet Switch

3080IPSR
Multi-layer Ethernet Switch

Audio IP Gateways

7890AESM-8-IP
Eight Channel AES Encapsulating IP Gateway

7890AESD-8-IP
Eight Channel AES De-Encapsulating IP Gateway

7890AES/MADI-B2-GE2
Four Channel (2 in and 2 Out) AES/MADI IP Gateway

7890IT-3-AUX-GE2
Three Channel Intercom or Three Channels In and Out of Analog audio IP Gateway

7820IPG-MADI
Dual Channel MADI from TS and dual MADI to TS Adapter

3080MADI9-TS-10GE-2
Hybrid Baseband/Ethernet Infrastructure - Top of Rack MADI Interface module

3080TS-MADI9-10GE-2
Hybrid Baseband/Ethernet Infrastructure - Top of Rack MADI Interface module

570EMR-TDM-TS
TDM audio inputs/outputs over IP encapsulation / de-capsulation

Media IP Gateways

3080IPG-ASI16-IPGE
IP En/De-Capsulator with 16 ASI I/O and 4x SFP 1GE

3080IPG-ASI24-IPGE
IP En/De-Capsulator with 24 ASI I/O and 4x SFP 1GE

3080IPG-ASI32-IPGE
IP En/De-Capsulator with 32 ASI I/O and 4x SFP 1GE

7890MG-10GE2
Universal Media over IP Gateway for up-to 10x Bidirectional ASI/SD/HD/3G/GbE

7880IP-ASI-IP
ASI/SDI IP Encapsulator

7880IPG8-10GE2
Hybrid Baseband/Ethernet Infrastructure - Media Gateway

Video IP Gateways

570IPG-3G18-SFPPI2
18 3G/HD/SD IP Media Gateway

EQX-IP18-IPG
EQX Input and IP Gateway Module

EQX-OP18-IPG
EQX Output and IP Gateway Module

7880IPG8-10GE2
Hybrid Baseband/Ethernet Infrastructure - Media Gateway

Media Aggregation Edge

3606FR
Ultra High Density Transport Platform

Processing and Compute Platform

evEDGE6-FR
6RU evEDGE Processing & Compute Platform

evRemote
Remote / At Home Production

Network Address Translation

7880IPG-NAT-6-10GE2
High Density Network Address Translator

Multiviewer

3067VIP10G-J2K-HW
10GE JPEG2000 Multi-Image Display Processor Hardware

3067VIP10G-3G-HW
10GE Multi-Image Display Processor Hardware

Monitoring

MVIP-II
IP Based Multi-Image Display & Monitoring Solution

TSMIP-10GE-2RU
IP Transport Stream Monitor

IP to HDMI

2430RX-J2K-IP
Dual JPEG2000 to HDMI Converter

2430RX2-10G
SMPTE 2022-6 / ASPEN to HDMI Converter

Remote Interfacing

3000REM-TX9-10GE2
9 Baseband Input REMote Hybrid Interface Processing Module

3000REM-RX9-10GE2
9 Baseband Output REMote Hybrid Interface Processing Module

IP On Ramp Gateways

570ITXE-HW-P60-UDC
Universal IP On Ramp Gateway

3080ITXE-HW-P60-UDC
Universal IP On Ramp Gateway

Main & Multi-Screen Transcoding & Compression

3480TXE
Software Defined multiple applications Encoder/Transcoder

3480TXE-ATSC
Software Defined Accelerated ATSC Encoding Platform

3482TXE-HEVC
Software Defined 4K HEVC encoder

MUXIP-10GE-v52-2RU
High Density Transport Stream Multiplexer

Contribution Encoding

5782ENC-H264HD-IPASI
H.264/MPEG-2 HD/SD Low Latency 8-Bit/10-Bit 4:2:2/4:2:0 Contribution Encoder

570J2K-HW-X19
12 Channel 3G/HD/SD J2K Encoder/Decoder

CXP9000 Platform
Multi-codec, multi-format encoding Platform

7882J2KX-IPASI
Bi-directional ultra low latency J2K encoder/decoder

7882ENC-H264HD-IPASI
H.264/MPEG-2 HD/SD Low Latency 8-Bit/10-Bit 4:2:2/4:2:0 Contribution Encoder

3080UEP-H264P60-IPASI
Professional 3G/HD/SD Universal Contribution Encoding Platform

IP Clean Switch

7880R2X1-IP-CS
MPEG TS over IP Clean Switch Module w/ Single Clean Switch

Content Management and Automation

Mediator-X
Content Management and Workflow Platform

IP Playout

OVRT-LIVE-2U
Integrated Playout Engine with IP input/output

Production Playout and Replay

DC-400
DreamCatcher Live Production Replay System

DC-100
DreamCatcher Content Playout

For product ordering information please contact the appropriate sales office listed below

Evertz is a proud member of the following groups:



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