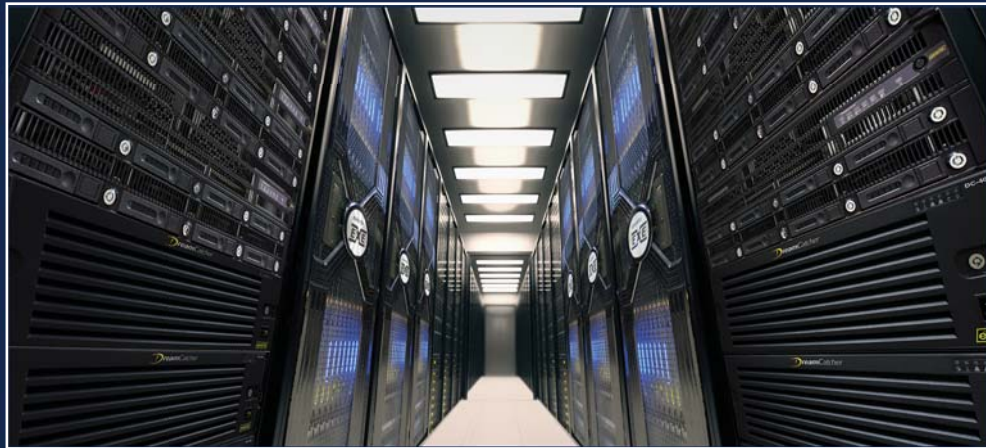


SDVN™

Software Defined Video Networking



evertz

www.evertz.com

Overview

Evertz is leading the IP Revolution with its Software Defined Video Network (SDVN™) solution for the new media and broadcast industries. SDVN is an exciting new architecture developed around a 10/100GE core. SDVN offers broadcasters, content distributors and providers a flexible, format agnostic and scalable infrastructure for SD, HD, and Ultra HD (4K and 8K) video.

Evertz broad range of SDVN™ products includes the EXE and IPX 10/100GE high capacity switch fabrics, a series of Media/Video/Audio Gateway devices, the DreamCatcher 10GE

enabled instant replay system and the VIP10G multi-image display processor. SDVN™ is powered by MAGNUM, Evertz' award winning control system, which enables operators to use the same familiar work surfaces while taking advantage of video over IP.

Through its intelligent utilization of extreme bandwidth switching, the SDVN solution allows media organizations to harness the true potential of a 10/100GE IP-Ethernet network. Evertz' SDVN™ solution provides unprecedented scalability, highly efficient workflows, and a reduction in capital and operational costs.

Key Features

Software Defined Network

Leading the IP Revolution

Evertz utilizes an SDN architecture which provides all the flexibility of a network based solution with all the reliability of baseband video routing.



10/100 Gigabit Ethernet

Scalable Architecture

SDVN™ takes full advantage of 10/100 Gigabit Ethernet, with unprecedented scalability.



Orchestration & Control

Flexible Reliable Control

SDVN™ can be controlled from virtually any surface, offering a variety of options from hardware control panels to third party touch surfaces.



Deterministic Routing

Simple SRC to DST Philosophy

SDVN™ is powered by Evertz' MAGNUM unified control system which takes the most complex configuration and makes it very easy to use.



Format Agnostic

Compressed & Uncompressed

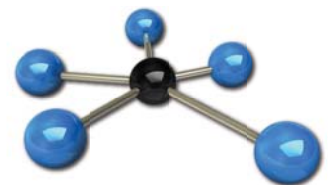
The unique scalable architecture of SDVN™ allows for any resolution and format to be routed and visualized.



Pooled Resources

Quick & Efficient Deployment

SDVN™ allows resources to be shared more efficiently thereby reducing the overall cost of ownership in projects.

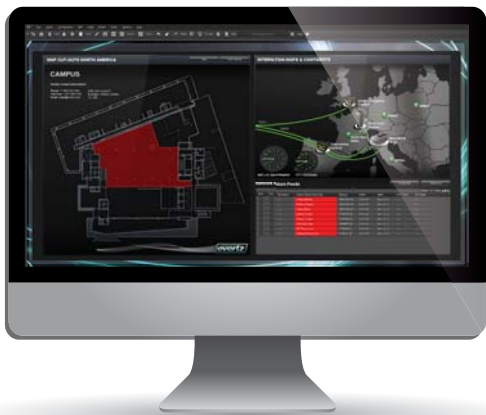


Orchestration & Management

MAGNUM

Evertz' MAGNUM unified facility control system is at the orchestration and control layer of the SDVN™ solution. MAGNUM manages the signal flow of video, audio and data packets over a network consisting of Evertz 10/100GE EXE and 3080IPX switch fabrics, a series of IP media gateways including 570IPG and 3000REM, and Evertz traditional SDI products such as EQX and 7812 series.

MAGNUM gives the operator full control over the switching and routing of signal flows. MAGNUM bridges the control between legacy SDI and next generation IP systems to provide seamless control across all platforms. Leveraging existing physical router control surfaces and/or VUE (Evertz customizable control interface), MAGNUM enables operators to interact with SDI/IP hybrid infrastructures or exclusively IP solutions to execute the source to destination operations performed in traditional baseband environments. MAGNUM is truly the heart and brains of Evertz SDVN™ solution.



VistaLINK PRO

SNMP MONITORING & CONTROL SOFTWARE

All of the SDVN™ hardware elements are SNMP enabled and monitored through Evertz VistaLINK® SNMP networked monitoring software. VistaLINK® is an enterprise grade SNMP management solution that monitors, controls and automatically analyzes failures in the system. VistaLINK® PRO's graphical web client allows for intuitive visualization of a system with intuitive fault notification. The SDVN™ components report their status to VistaLINK® PRO where from a single workstation the health of the entire system can be monitored and observed.

ASPEN

ASPEN (Adaptive Sample Picture ENcapsulation) was developed to meet the real world requirements of an IP-centric facility while leveraging proven MPEG2-TS standards. ASPEN offers a robust format for encapsulating uncompressed Ultra HD/3G/HD/SD over MPEG-2 transport streams (TS). When combined with existing SMPTE standards such as SMPTE ST 302 (audio over TS), SMPTE ST 2038 (ancillary data over TS) and the SMPTE 2022 family of IP standards, ASPEN provides broadcasters with a framework for transporting video, audio, and data over scalable IP networks. Ultra low latency with independent video, audio and ancillary data flows also makes ASPEN ideal for use in production environments and work flows. ASPEN is an open framework that has been submitted to SMPTE and is being supported by a number of vendors.

Ordering Information

SDVN Orchestration & Control

MAGNUM-SDVN
Unified Facility Control

High Capacity Switch Fabrics

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

EXE28-VSR
23Tb/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

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

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-SFPP12
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

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

Universal Ingest Transcoding

3080ITXE-HW-P60-UDC
Multiformat Integrated Transcoding Encoder

IP Playout

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

Main & Multi-Screen Transcoding & Compression

3480TXE
Software Defined Accelerated Transcoding Platform

3480MXP-FRG
Multiscreen Bulk Packager, Integrated Transcoder Packager

7880SLKE-H264HD
HD/SD-SDI StreamLINK™ H.264/AVC Encoder

Contribution Encoding

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

7882ENC-H264HD-IPASI
Professional HD/SD-SDI H.264 and MPEG-2 Encoding Platform

3480TXE
Software Defined Accelerated Encoding Platform

3080UEP
OUTBOUND Contribution Universal Encoding Platform

5782ENC-H264HD-IPASI
Professional Contribution H.264 and MPEG-2 Encoder

IP Clean Switch

7880R2x1-IP-CS
MPEG TS over IP Clean Switch Module with Single Clean Switch

Network Management System

VistaLINK Enterprise NMS
Network Management System for Enterprise

Content Management and Automation

Mediator
Content Management and Workflow Platform

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

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