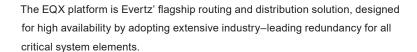
### $EQX10 - 180 \times 180$

Enterprise Hybrid Video/Audio/IP Router in 10RU



EQX10 is a high performance platform that can be easily expanded to incorporate new technologies in accordance with industry demands. Developed to assist mission critical and demanding 24/7 environments systems, it supports 180x180 video IO with optional path—by—path redundancy, and can scale up to 180x360 video IO. The EQX10 provides additional 15x XLINK connections for penalty—free multiviewing and optional hybrid cosspoints with a 10x10 integrated ADMX for audio shuffling, well suited for network and local broadcasters, mobile production, mobile flight packs, cable, military, government and corporate applications.



#### High Performance, Format Agnostic Platform

- 12G-SDI, 6G-SDI, 3G-SDI, HD-SDI, SD-SDI
  - » SDI coax or optic signals and IP video SMPTE ST 2022–6 and ST 2110
  - » audio embedding and de-embedding, frame sync and other processing
- DVB-ASI, SMPTE ST 310M
- Optional 10x10 integrated ADMX audio compatible with all existing TDM-enabled modules (EQX-XPTG-ADMX10)
- Input/output asymmetrical expansion in steps of 18
- Up to 15x X-LINK (480 monitoring outputs)
- Source-by-source intelligent auto-configuration:
  - » input equalization (on/off)
  - » output reclocking (on/off)
  - » ASI 177 flag (on/off)
  - » switch point (pre-defined or fully variable)

### Advanced System Control & Interfacing

- Main/redundant Ethernet for control
- 4x serial RS-422/232 for control
- Q-Link port for local emergency control panels
- Full VistaLINK® PRO command and control, supporting SNMP, AVM processing controls
  - » can be configured on separate main and redundant Ethernet ports
- Syslog for additional log for third–party and inSITE big data analytics
- Network hardening control for additional security
- MAGNUM unified control system
  - » VUE user interface
  - » virtual and physical router control panels

## High Availability, 24/7 Design

- Fully passive frame that is modular by design
- All modules are hot–swappable
- Path-by-path crosspoint redundancy
- Dual hot redundant frame controller
- Load-sharing redundant power supply (separate 1RU)
- Front hot–swappable cooling fans
- Comprehensive system monitoring bus
- VistaLINK® PRO SNMP:
  - » AVM monitoring of I/O and crosspoint modules
  - » temperature and fan monitoring
  - » power supply monitoring

# $EQX10 - 180 \times 180$

#### Enterprise Hybrid Video/Audio/IP Router in 10RU



Specifications

Video Inputs: Formats:

SMPTE ST 259M, ST 292M, ST 310M, ST 424M, ST

2082. ASI, 10/25/100GbE

Signal Level: Impedance: Return Loss:

800mV p-p 75Ω terminating > 15db typ. (5-1500MHz); > 10db typ. (1.5–3GHz)

Cable Equalization: Belden 1694A @ 270MHz

300m to 500m; Belden 1694A @ 1.5GHz 100m to 200m: Belden 1694A @ 3GHz

Video Outputs:

Signals Supported: SMPTE ST 259M, ST 292M,

90m to 150m

ST 310M, ST 424M, ST 2082, ASI, 10/25/100GbE

Reclocking: Configurable Non-Reclocking: Configurable 75Ω terminating Impedance:

> 15db typ. (5-1500MHz); Return Loss

> 10db typ. (1.5–3GHz)

DC Offset:  $0 \pm 0.5$ Output Jitter: 0.2 UI

Reference Timing:

Analog 525/625/tri–level HD looping connections Switching Ref.:

Connector: 2x BNC IEC 61169.8 Annex A

1V p-p ± 3dB Signal Level: 75Ω terminating Impedance: (active loop out optional)
4 independent timing Reference Timing:

planes, programmable

output by output

Control:

Q-Link: 4x 750 video cable for local emergency CP only

Serial RS-422/232: 4x D9 female

10/100baseT, 4x RJ-45 Ethernet:

Physical:

Dimensions: 19" W x 17 5" H x 19 4" D (483 x 445 x 493mm)

Operating Temp.: 0-40°C

Cooling: Fan cooled, front to rear

Power:

Auto ranging 100–240V 50/60Hz; up to 4x load Voltage:

sharing PS modules in 1RU frame, separate main input for each module or

external 48V DC

1300W per PS module, Power:

700W for a green 10RU populated as a 180x180

Separate 1RU frame with Redundancy: up to 4 PS modules for 1:1

redundancy available

Compliance:

TUV Listed to Safety:

CAN/CSA-C22.2 No. 62368-1:2014, ANSI/UL 62368-1:2014, EN 62368-1:2014 + A11:2017, IEC 62368-1:2014; CISPR 22:2008/EN55022:2010 (Class A) & CISPR 24:2010/EN55024:2010; IEC 60950-1:2005 (2nd Ed.) + Am 1:2009; CAN/CSA C22.2 No.60950-1/A1:2011

UL 60950-1/R·2011-12

**Ordering Information** 

PKG-EQX10-QT2-X-2FC-XPT-ADMX

Package for a single EQX 10RU system. This package includes an EQX-10FR, with AXR/AXM rearfins for ADMX and MADI IO. EQX10-XLINK9-RP and QT2 fan bins. 2 frame controllers.

and 1 EQX10-XPTG-ADMX10+AX5.

Package for a single EQX 10RU system. This package includes an EQX-10FR, with PKG-EQX10-QT2-X-2FC-XPT

EQX10-XLINK9-RP and QT2 fan bins, 2 frame controllers, and 1 EQX10-XPTG-180X288,

**Ordering Options:** 

FOX10-FROT2-AX 10RU EQX Frame, 180x180 regular main/redundant paths, standard 4 Xlink, 2 are fed by the

main XPT, 2 are fed by redundant XPT, populated with ADMX rear plates EQX10-QT2 fans.

EQX10-FRQT2 10RU EQX Frame, 180x180 regular main/redundant paths, standard 6 xlink, 3 are fed by main

XPT, 3 are fed by redundant XPT, populated with EQX10-QT2 fans.

EQX-FC Redundant frame controller

EQX-PS-C Next-generation high-efficiency Power Supply Module to be used only in the EQX-PS-FR-C.

Not compatible with other EQX power travs

EQX-PS-FR-C Next-generation high-efficiency EQX power supply tray, includes blue Anderson power

48V connector for EQX & EQXUHD frames supporting new EQX-PS-C, no power switch is

used with this tray... NOT compatible with old EQX-PS.

EQX-XPTG-180x288 Green Crosspoint Module, made compact for the EQX10

EQX-XPTG-ADMX10 A 180x244 video XPT with an integrated ADMX 10x10 that is to be used exclusively in the

EQX10FR and EQX10FR-XLINK frames.

License option for the EQX10-XPTG-ADMX10 to add an additional 5x5 audio ports available +AX5

via DIN connectors and are software selectable to be either TDM or MADI.

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