

EQX26 — 576x576

Enterprise Hybrid Video/Audio/IP Router in 26RU



The EQX platform is Evertz' flagship routing and distribution solution, designed for high availability by adopting extensive industry-leading redundancy for all critical system elements. With its time-proven robustness and redundancy, the EQX is ideal for mission critical and demanding 24/7 environments.

The EQX26 platform is a completely passive frame where all active components can be swapped. This makes it a high performance system that can be easily expanded to incorporate new technologies growing with your company needs and industry demands. EQX26 can be configured for many different environments; it supports 576x576 video IO with optional path-by-path redundancy, and it can even scale to 576x1152 video in a single frame. EQX26 can be further expanded using a multi-frame configuration supporting unblocking architecture with main and redundant inter-frame paths. The EQX26-FRHBX-XL2 provides additional outputs via 18x XLINK connections for penalty-free multiviewing, 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
- Input/output asymmetrical expansion in steps of 18
- Up to 18x X-LINK (576 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*

EQX26 — 576x576

Enterprise Hybrid Video/Audio/IP Router in 26RU



Specifications

Video Inputs:

Formats: SMPTE ST 259M, ST 292M, ST 310M, ST 424M, ST 2082, ASI, 10/25/100GbE
Signal Level: 800mV p-p
Impedance: 75Ω terminating
Return Loss: > 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 90m to 150m

Video Outputs:

Signals Supported: SMPTE ST 259M, ST 292M, ST 310M, ST 424M, ST 2082, ASI, 10/25/100GbE
Reclocking: Configurable
Non-Reclocking: Configurable
Impedance: 75Ω terminating
Return Loss: > 15db typ. (5–1500 MHz); > 10db typ. (1.5–3GHz)
DC Offset: 0 ± 0.5V
Output Jitter: 0.2 UI

Reference Timing:

Switching Ref.: Analog 525/625/tri-level HD looping connections
Connector: 2x BNC IEC 61169.8 Annex A
Signal Level: 1V p-p ± 3dB
Impedance: 75Ω terminating (active loop out optional)
Reference Timing: 4 independent timing planes, programmable output by output

Control:

Q-Link: 4x 75Ω video cable for local emergency CP only
Serial RS-422/232: 4x D9 female
Ethernet: 10/100baseT, 4x RJ-45

Physical:

Dimensions: 19" W x 45.5" H x 19.4" D (483 x 1156 x 493mm)

Power:

Voltage: Auto ranging 100–240V 50/60Hz; up to 4x load sharing PS modules in 1RU frame, separate main input for each module or external 48V DC
Power: 1300W per PS module, 2100W for a green 26RU populated as a 576x576
Redundancy: Separate 1RU frame with up to 4 PS modules for 1:1 redundancy available

Compliance:

Safety: TUV Listed to 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-EQX-26HBX-2FC-2XPT

Package for a single EQX 26RU system. This package includes an EQX26-FRHXB-XL2, 2x EQX-FC controllers, and 2x 576x576 crosspoints.

Ordering Options:

EQX26-FRHXB-XL2

26RU EQX Frame using EQX-FAN-HBX modules and has 2 banks of XLINK (18 total XLINK).

Includes Frame/MI and 10 fan bins. No power supplies, no I/O cards, no XPT, no FC.

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 trays.

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-576x288

576x288 EQX crosspoint with new "EQX Green initiative" platform utilizing significantly less power and cooling than existing EQX-XPT-576x288A crosspoint.

EQX-XPTG-576x576

576x576 EQX crosspoint with new "EQX Green initiative" platform utilizing significantly less power and cooling than existing EQX-XPT-576x576A crosspoint.