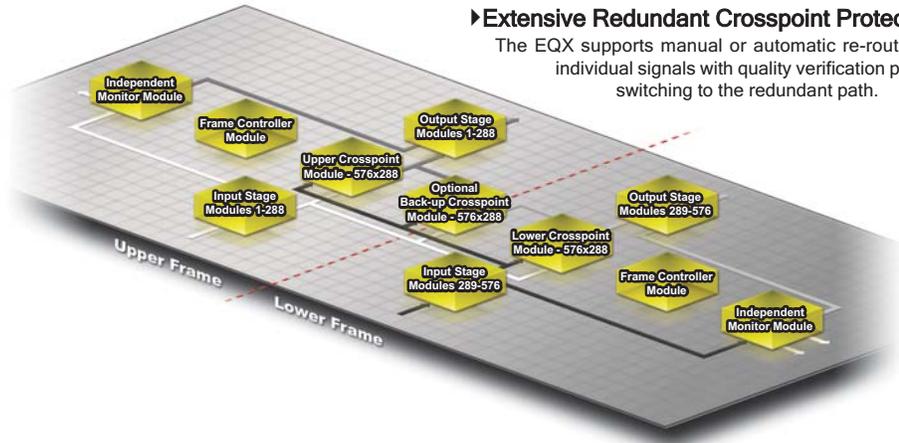


EQX - 576x576, 288x288 & 1152x1152

High Density Core Router

The only routing solution for mission critical applications...the EQX platform has the ability to route up to 576x576 signals in a compact 26RU frame or up to 288x288 in the 16RU frame. The EQX is ideal for mission critical and demanding 24/7 environments, including network, local broadcaster, mobile production, cable, military, government and corporate applications.

4



► Extensive Redundant Crosspoint Protection

The EQX supports manual or automatic re-routing of individual signals with quality verification prior to switching to the redundant path.

► Designed for Performance Ultra Wide Band Routing

By offering a format independent data path, the EQX supports signals from 3Mb/s all the way up to 3Gb/s including SD-SDI, HD-SDI, DVB-ASI, SMPTE 310M digital video formats as well as optical formats and other high data rate signals. In addition to this the EQX supports four independent timing planes which provides independent SMPTE compliant switching for up to four different digital video signal formats.

► Intelligent Auto-Configuration

The EQX's exceptional Source-By-Source intelligent auto configuration facility allows the path to each destination to be independently and instantly re-configured to suit the requirements of the source being switched. This includes auto selecting the Reclocking/Non-reclocking circuitry, the ASI mode as well as selecting the correct switch point.

► System Flexibility

The inspired modular approach of the EQX's design provides excellent in-service expansion capabilities. In convenient steps of 18, the number of inputs and/or outputs can be increased from the base size of 18x18 all the way up to 576x576, and beyond, in square and non-square configurations.

► Internal (1152x 1152 Expansion)

Utilizing internal passive splitting technology the EQX can offer passive looping inputs that remain SMPTE compliant. Using the passive input splitting as well as passive output combining the EQX offers the ability to scale up to 1152x1152 without requiring complex, expensive and difficult to install and maintain external splitting and combining or active DA-ing of sources and switching of destinations

► High Density

Available Double Density Outputs allow the EQX to grow past 576 outputs in the 26RU chassis and past 288 outputs in the 16RU chassis.

► Multiview Processor Integration

The EQX now integrates X-Link on both 16 and 26RU models. X-Link is a high density interconnect to a wide variety of Evertz® Multiview Processors that DOES NOT use up standard router outputs. A 576x576 EQX will still have the full 576 outputs while supporting more than 200 additional outputs to an Evertz® Multiview Processor. X-Link technology is a unique Evertz® signal interconnect carrying a large block of signals over a single connector.

► Audio Routing

The EQX router is an integral part of the Evertz Integrated audio system which allows operators the ability to reduce cost and space while giving the flexibility to route embedded AES, discrete analog, discrete AES and MADI inputs to embedded AES, discrete analog, discrete AES and MADI outputs. Any audio input in the system can be routed to any output.

► Compact Design

The EQX delivers a high broadcast quality 576x576 routing capability in a compact 26RU frame, while expansion to 1152x1152 ensures a migration path for even larger applications.

► Comprehensive Control

The EQX provides comprehensive connectivity to suit the most demanding installations. The internal frame controllers provide complete connectivity to any number of remote control panels and 3rd party control devices such as automation systems via multiple Q-Link, F-Link, Ethernet and Serial ports. The optional advanced EQX control system makes enterprise installations with advanced tie-lines, automated pathfinding, and advanced control surfaces easy to implement and manage.

► Independent Monitoring

EQX provides extensive signal monitoring of both inputs and outputs, power supply voltages, interior temperatures and fan speeds. All monitored data is available through SNMP for facility-wide monitoring systems such as VLPRO.

► Simple Maintenance

The advanced design of the EQX ensures that all active components, including input, output, crosspoint modules, frame controllers, cooling fans and power supplies, are accessible from the front of the frame and can be hot swapped at any time for maintenance.

► Outstanding Redundant Protection

The EQX is the ultimate design in terms of system availability. The EQX architecture contains redundant protection for all of the critical system elements. The architecture provides redundant cross-point configurations, redundant frame controllers, external redundant load sharing power supplies, redundant easy access cooling fans and a dedicated monitoring bus that is independent of the system cross-points. In the event of a failure, manual or automatic re-routing of signals on an output-by-output Path-by-Path basis is fully supported by the system software. Using the EQX monitoring capabilities, output quality can be verified prior to switching to redundant signal paths. The EQX is fully SNMP enabled and supports seamless integration with VistaLINK® PRO command and control systems.



EQX - 576x576, 288x288 & 1152x1152

High Density Core Router

►Features & Benefits

High performance format independent platform

- SD-SDI, HD-SDI, DVB-ASI, SMPTE 310M and more!
- Any fiber optical signal from 3Mb/s up to 3Gb/s
- Scalable to 576x576 in a single 26RU frame
- Scalable to 288x288 in a single 16RU frame
- Input expansion in steps of 18
- Output expansion in steps of 18
- Up to 1152x1152 in multiple frames
- Source-by-source intelligent auto configuration
- Input equalization (On/Off)
- Output reclocking (On/Off)
- ASI Mode (On/Off)
- Switch Point (Variable)

High availability, 24/7 design

- Full modular design
- All modules are hot swappable
- All components are front accessible (electronics & cooling fans)
- Passive I/O
- Full redundant design
- Redundant crosspoint
- Redundant frame controller
- Redundant power supply (separate IRO)
- Redundant cooling fans
- Comprehensive system monitoring bus
- VistaLINK® PRO SNMP & AVM monitoring of I/O & crosspoint modules
- Temperature monitoring
- Power supply monitoring

Advanced system control & interfacing

- Supports the full range of Quartz remote control panels
- Full VistaLINK® PRO command & control, SNMP & AVM
- Full integration with 3rd party automation systems
- Supports a wide selection of control protocols
- Ethernet, Serial RS422/232, F-Link and Q-Link ports

►Specifications

Configuration:		Reference Timing:		Power:	
576x576 in 26RU	(PSU separate 1RU)	Switching Reference:	Analog 525/625/tri-level HD Looping connections	Voltage:	Auto ranging 100 to 240V 50/60Hz
288x288 in 16RU	(PSU separate 1RU)	Connector:	2 BNC IEC 61169-8 Annex A	Power:	Up to 4 load sharing PS modules in 1RU frame - separate mains input for each module or external 48V DC
Inputs:	Selectable in blocks of 18	Signal Level:	1 V p-p ± 3dB		1200 W per PS module
Outputs:	Selectable in blocks of 18	Impedance:	75Ω terminating active loop out optional	1500 W for fully loaded 288x288 config	3000 W for fully loaded 576x576 config
Redundant Protection:		Reference Timing:	4 independent timing planes, programmable output by output	Redundancy:	Separate 1RU frame with up to 4 PS modules for 1:1 redundancy available
Redundant Crosspoint		Control:	Q-Link:	4 x 75Ω video cable (max length 500m)	
Redundant Frame Controller					
Redundant Power Supply		F-Link:	2x RJ45	Serial RS422/232:	2x D9 female
Redundant Cooling Fans		Ethernet:	10/100baseT, 2x RJ45		
Video Inputs:		Physical:			
Formats	SMPTE 259M, SMPTE 292M, SMPTE 310M, SMPTE 424M, ASI	Height:	45.5" (115.5cm) 26RU		
Optical Formats	SMPTE 292M, G-Link, any optical signal between 3Mb/s and 3Gb/s	Width:	28" (49cm) 16RU		
Signal Level	800mV p-p	Depth:	19" (483mm) 19" Rack Mount		
Impedance	75Ω terminating	19.4" (493mm) over hinges and BNCs			
Return Loss	>15db typical (5-1500 MHz)	Operating Temp:	0°C -40°C		
Cable Equalization	Belden 1694A @ 270 MHz 300m	Cooling:	Fan cooled, front to rear		
Connectors	Belden 1694A @ 1.5GHz 100m BNC IEC 61169-8 Annex A				
Video Outputs:					
Signals Supported	Same as Input				
Reclocking	Configurable				
Non-Reclocking	Configurable				
Signal Level	800mV p-p ± 10%				
Impedance	75Ω terminating				
Return Loss	>15 db typical (5-1500 MHz)				
DC Offset	0 ± 0.5V				
Output Jitter	0.2 UI				
Connectors	BNC IEC 61169-8 Annex A				

►Ordering Information - Contact factory for system configuration

576x576- 26RU Frame:

EQX26-18X18S	18 input, 18 output SDI/ASI Video Router
EQX26-18X18H	18 input, 18 output HD/SDI/ASI Video Router
EQX26-18x18-3G	18 input, 18 output 3G/HD/SDI/ASI Video Router
EQX26-18x36-3G-F	18 input, 36 output 3G/HD/SDI/ASI Video router with Fiber I/O

288x288 - 16RU Frame:

EQX16-18X18S	18 input, 18 output SDI/ASI Video Router
EQX16-18X18H	18 input, 18 output HD/SDI/ASI Video Router
EQX16-18x18-3G	18 input, 18 output 3G/HD/SDI/ASI Video Router
EQX16-18x36-3G-F	18 input, 36 output 3G/HD/SDI/ASI Video router with Fiber I/O

Ordering Options (to expand 26RU up to 576x576, 16RU up to 288x288):

EQX-PS-FR	1RU frame which holds up to 4 power supply modules (EQX-PS)
EQX-PS	Power Supply module 4 for 26RU frame & 2 for 16RU frame
EQX-FC	Redundant frame controller for 26RU and 16RU frame
EQX-XPT-576x288	Redundant crosspoint module for 26RU frame
EQX-XPT-288x288	Redundant crosspoint module for 16RU frame
EQXS64-1x2-3G	Multi-Channel Passive Splitter/Combiner

Available for either 16RU frame or 26RU frame:

EQX-IP18S	18 Input SDI/ASI Module
EQX-IP18H	18 Input HD/SD/ASI Module
EQX-IP18-3G	18 Input 3G/HD/SD/ASI Module
EQX-OP18S	18 Output SD/ASI Module
EQX-OP18H	18 Output HD/SD/ASI Module
EQX-OP18-3G	18 Output 3G/HD/SD/ASI Module

Ordering Options (to expand 26RU up to 1152x1152):

Contact Factory

For fiber optics options contact factory
Greater than 576x576, contact factory

