

The EQXM is an enterprise level router that was designed with large SDI based systems in mind, it can handle up to 1152x1152 I/O in a single frame. The EQXM is ideal for mission critical and demanding 24/7 environments, including network, local broadcaster, mobile production, cable, military, government and corporate applications.

Compact Design and Expansion

The EQXM delivers high broadcast quality 1152x1152 routing capability in a dense 40RU frame, it can be expanded to a 2304x2304 system that is fully non-blocking with redundant.

Outstanding Redundant Protection

The EQXM pedigree can be clearly seen for redundancy and protection, using the same ultimate design in terms of system availability as the EQX. The EQXM architecture contains redundant protection for all of the critical system elements. The architecture provides redundant cross-point configurations, Multi hot 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 or path-by-path basis is fully supported by the system software.

Extensive Redundant Crosspoint Protection

The EQXM 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 EQXM supports signals from 3Mb/s all the way up to 3Gb/s including SD-SDI, HD-SDI, DVB-ASI, SMPTE ST310-1 digital video formats as well as optical formats and other high data rate signals

Optical Routing

The EQX Router can accept optical signals at any data rate between 3Mb/s and 3Gb/s. Whether it is SMPTE259M or 292M compliant signals over fiber, or proprietary optical signals such as Evertz G-Link or from a 3rd party the EQXM will accept the signals, route them through the digital core and re-launch them on fiber.

The EQXM can also take in digital signals via coax and launch them on fiber or accept optical signals and send them out electrically via coax

Optical connectivity is achieved by using SFPs or MTP connections. Either choice provides exceptionally low-loss and high connection integrity.

Audio Routing

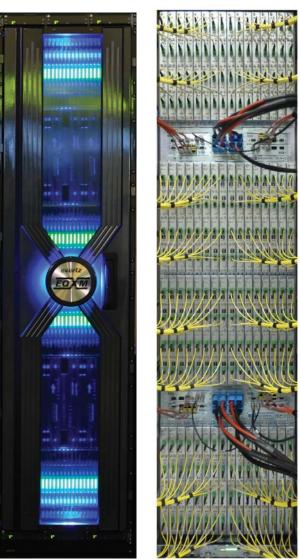
The EQXM router follow the same A Routing model used by the EQX, providing the first and best hybrid audio and video router solution in the industry. Evertz' hybrid video / audio system allows operators the ability to reduce cost and space while giving the flexibility to route embedded AES, discrete analog, discrete AES, MADI, and Studer A-Link inputs to embedded AES, discrete analog, discrete AES, MADI, and Studer A-Link outputs. Any audio input in the system can be routed to any output.

Intelligent Auto-Configuration

The EQXM's exceptional Source-By-Source intelligent auto configuration facility allows the path to each destination to be independently and instantly reconfigured 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.

Advanced Control System

Evertz' MAGNUM Unified Control System addresses the ever-growing challenges broadcasters face as facilities become larger, more complex and distributed. MAGNUM has been designed to unify the control and operation of the routing core, master control, production switching, MAGNUM-SVDN and multiviewer. From a core routing perspective MAGNUM provides a superior, unified control / interfacing to Evertz EQXM and other Evertz routing products. Configuration and manage systems ranging from single router systems (with 100s of sources / destinations) to large enterprise sized systems (with 100os of sources / destinations, that utilizes tie-lines).



EQXM Front View

EQXM Rear View MTP Rear Plate wired for 1152x1152

System Flexibility

The inspired by the modular approach used in the EQX platform the EQXM design provides excellent in service expansion capabilities. In convenient steps of 18 for router inputs and 36 for router outputs that can grow from 18x36 architecture all the way up to 1152x1152, in square and non-square configurations.

Simple Maintenance

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

Independent Monitoring

EQXM 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 VistaLINK PRO.



EQXM Large Enterprise SDI Router up to 1152x1152 with Audio TDM Embed/De-embed

 Features & Benefits High Performance Format Agnostic Platform 3G-SDI, SD-SDI, HD-SDI, DVB-ASI, SMPTE 310M and more! Any fiber optical signals from 3Mb/s up to 3Gb/s Scalable to 1152x1152 in a single 40RU frame Input expansion in steps of 18 Output expansion in steps of 36 Up to 2304x2304 non-blocking with redundancy in multiple frames Source-by-source intelligent auto-configuration: Input equalization (On/Off) Output reclocking (On/Off) ASI Mode (On/Off) Switch Point (Variable) 		Advanced System Control & Interfacing • Full VistaLINK® PRO command & control, SNMP & Audio Video Monitoring (AVM) • Ethernet, Serial RS-422/232 • MAGNUM Unified Control System • VUE user interface • CP-2232/2116 Advanced Control panels		High Availability, 24/7 Design • Full modular design • All modules are hot swappable • Passive I/O • Full redundant design • Path by path crosspoint redundancy • Redundant frame controller • Redundant frame controller • Redundant cooling fans • Comprehensive system monitoring bus • VistaLINK® PRO SNMP • AVM Monitoring of I/O & crosspoint modules • Temperature monitoring • Power supply monitoring	
Physical Dimentions Height: Width:	40 RU (69.874) Rack width (19)	Relocking: Non-relocking: Impedance:	Configurable Configurable 75ohms terminating	EQXM-OP9-MTP: Connector:	9 optical transmitters + 1 monitoring optical transmitters , Up to 3Gb/s 12 Fiber position single mode angle
Depth:	(19 + Door)	Return Loss:	 > 15db typical (5-1500 MHz) / > 10db typical (1.5-3GHz) 	Wavelengths:	polished 1310nm
Redundant Protection		DC Offset:	0 ±0.5V	Typical Output Powe	
Redundant Crosspoin Redundant Frame Co		Output Jitter:	0.2 UI	Reference Timing	
Redundant Power Supply		Fiber Inputs/Outputs		Switching Reference:	Analog 525/625/tri-level HD looping
Redundant Cooling Fa	ans	SFP1R-2:	Dual Optical SFP Receiver, Up to	0	connections
			3Gb/s	Connector:	2 BNC IEC 61169.8 Annex A
Video Inputs		Connector:	LC/PC	Signal Level:	1V p-p ±3dB
Formats:	SMPTE 259M, 292M, 310M, 424M, ASI	Maximum Input P		Impedance: Reference Timing:	75ohms terminating Multiple timing planes supported
Optical Formats:	SMPTE 292M, GLINK, any optical signal between 3Mb/s and 3Gb/s	Optical Sensitivity SFP1T13-2:	Dual Optical SFP Transmitter, Up to	Control	
Signal Level:	800mV p-p	Connector	3Gb/s, 1310nm LC/PC	Ethernet:	10GbE and 1GbE connections
mpedance: Return Loss:	75ohms terminating > 15db typical (5-1500 MHz) /	Connector: Wavelengths:	1310nm	Serial:	supported RS422/232 supported
Courr L000.	> 10db typical (1.5-3GHz)	Output Power:	-2dBm ±1dBm	Gonal.	NG-22/202 Supported
Cable Equalization:	Belden 1694A @ 270MHz 300m to	EQXM-IP9-MTP:	9 Optical Receivers + 1 monitoring	Power	
	500m Belden 1694A @ 1.5GHz 100m to 200m	Connector:	optical transmitter, Up to 3Gb/s 12 Fiber position single mode angle polished	Voltage:	Auto ranging 100 to 240V 50/60Hz Up to 4 load sharing PS modules in 1RU frame
	200m Belden 1694A @ 3GHz 90m to 150m	Operating Wavele	•		Separate main input for each module or external 48V DC
		Maximum Input Po	ower:	Power:	1200W per PS module
Video Outputs Signals Supported:	SMPTE 259M, 292M, 310M, 424M, ASI	Typical Optical Se	-1dBm nsitivity: -20dBm+/-1dBm	Redundancy:	Multiple 1RU frame(s) with up to 4 PS each modules for 1:1 redundancy available

Frames Power and EQXM-40R	EQXM 40RU chassis	Rear Plate Options EQXM-IO18-DIN-RP2 EQXM 2 slot coax DIN based rear plate for		
		EQXII-IO18-DIN-RP2		
EQXM-XC	EQXM system manager board set		EQXM-IP18 and EQXM-OP18 cards	
EQXM-PS-FR	1RU external Power supply chassis for EQXM	EQXM-IP18-SFP-RP2	2 EQXM 2 slot standard SFP based rear plate for	
EQXM-PS	EQXM power supply		EQXM-IP18-MS cards	
EQXM-FAN-FR	1RU external fan chassis for EQXM	EQXM-OP18-SFP-RP2		
EQXM-FAN	EQXM Fan bin		EQXM 2 slot standard SFP based rear plate for	
			EQXM-OP18-MS cards	
Crosspoints		EQXM-IP18-MTP-RP2 EQXM 2 slot MTP based rear plate for		
EQXM-XPTG-576X576			EQXM-IP18-MS cards	
	576x576 EQXM crosspoint with Green platform that	EQXM-IP9-MTP	EQMX 9 input MTP module to be used with	
	utilizes significantly less power and cooling than		EQXM-IP18-MTP-RP2	
traditional crosspoints designs		EQXM-OP18-MTP-RI	P2	
	· č		EQXM 2 slot MTP based rear plate for	
I/O modules			EQXM-OP18-MS cards	
EQXM-IP18	EQXM 18 channel coax input card with AVM	EQXM-OP9-MTP	EQMX 9 output MTP module to be used with	
	functionality. Includes future AVIP capability through		EQXM-OP18-MTP-RP2	
	s/w license (EQXM-IP18-FK-AVIP)			
EQXM-IP18-MS	EQXM 18 channel MTP/SFP input card with AVM	Ordering Options		
	functionality. Includes future AVIP capability through	0 1	AVIP software license option for EQXM-IP18 and	
	s/w license (EQXM-IP18-FK-AVIP)		EQXM-IP18-MS. Enables full 18 channel de-	
EQXM-OP36	EQXM 36 channel coax output card with AVM		embedding used in Evertz audio TDM systems.	
	functionality. Includes future AVOP capability through	EQXM-OP36-FK-AVC		
	s/w license (EQXM-OP36-FK-AVIP)	LQAN-OF 30-FR-AVC	AVOP software license option for EQXM-OP36 and	
EQXM-OP36-MS	EQXM 36 channel MTP/SFP output card with AVM		EQXM-IP36-MS. Enables full 36 channel de-	
EQAN-0730-1013				
	functionality. Includes future AVOP capability through		embedding used in Evertz audio TDM systems	
	s/w license (EQXM-OP36-FK-AVIP)		s and systems greater than 1152 x 1152, contact facto	

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