

The EMR is a multi-format modular router that provides a high-density solution without compromising functionality. The EMR provides a unified platform for routing video as well as other formats. The EMR uses a proprietary X-Link interface to produce a video router that is both cost effective and powerful.

A single 6RU frame can accommodate 128 x 128 video signals, and expansion beyond this is as easy as adding another frame. With two 6RU frames, the EMR can accommodate 256 x 256 video signals with full redundancy.

The modular design of the EMR means there are no limitations to the signal formats that can be added to the router, or limitations to the size to which it can be expanded. Other products that can be combined with the EMR are audio routing, master controllers, multi-viewers and more.

Configuration

The EMR allows any mix of formats within a frame. The inputs and outputs are scalable in blocks of 32. A system consists of the input stage, the crosspoint, and the output stage. Each input and output device is connected to the crosspoint through a proprietary X-Link connection. The use of this connection is what provides the flexibility for the system to scale and evolve with changing needs.

Scalability

The EMR can be scaled well beyond a single frame. A single crosspoint module can support up to nine input modules and nine output modules, allowing a system to scale to 288 x 288 video signals.

Redundancy

Each input and output card in the EMR contains multiple X-Link interfaces that allow connections to multiple crosspoints. Each input card provides two X-Link outputs that can be used for redundant connections, and each output card provides two X-Link inputs that can be setup to automatically failover if the primary connection fails. The redundancy structure of the EMR minimizes the chances of any failure to the system.

Features & Benefits

Video Routing

- Support for 3G-SDI, HD-SDI, SD-SDI, DVB-ASI, SMPTE ST 310-1 and more
- Scalable to 128 x 128 in a single 6RU frame
- Scalable to 288 x288 in two 6RU frames
- Input expansion in steps of 32
- Output expansion in steps of 32
- Source-by-source intelligent auto configuration
- Input equalization (on/off)
- Output reclocking (on/off)
- · ASI mode (on/off)



Control

Control of the EMR is via the SC-2000 system controller. The SC-2000 provides a unified interface for the EMR so that it can function as a standalone system and be controlled using a wide range of control panels and interfaces. When combined with MAGNUM, the EMR can utilize further enhancements in configuration and control. The EMR also provides a SNMP interface to control various configuration options.

Comprehensive Monitoring

When combined with MVPX and VIPX multi-viewers, the EMR provides an abundant of options to monitor the integrity of video signals. Each crosspoint module contains nine X-Link outputs that are available to feed video signals

Advanced system control & interfacing

- · Supports the full range of Quartz remote control panels
- Full VistaLINK[®] PRO command & control, SNMP & AVM
- Supports a wide selection of control protocols
- Ethernet, Serial RS-422/RS-232 connections
- Full integration with 3rd party automation systems
- High availability, 24/7 design
- Full modular design
- All modules are hot-swappable
- · All components are front accessible
- Passive I/O
- External MI connection
- Redundant frame controller
- Redundant crosspoint
- Redundant power supply
 VistaLINK[®] PRO SNMP monitoring of I/O modules

▶Specifications

Configuration:		Control:		Physical:	
Inputs:	Selectable in blocks of 32	Ethernet:	2x RJ45	Dimensions:	
Outputs:	Selectable in blocks of 32	Serial:	RS-232/RS-422 2x D15 female	EMX6-FR:	10.5" H x 19.0" W x 5.75" D (266 mmH x 483 mmW x 400 mmD
Video Inputs:		Electrical:		EMX3-FR:	5.25"H x 19.0"W x 15.75" D
Formats:	SMPTE ST 259-1,	EMX6-FR:			(133 mmH x 483 mmW x 400 mmD
	SMPTE ST 292-1,	AC Mains Input:	Auto ranging, 100 ↔ 240 VAC,		,
	SMPTE ST 310-1,	-	50/60 Hz	Module Capacity:	
	SMPTE ST 424, ASI	Max Operating Current	: 9.5 A (@ 115 VAC nominal), 4.0 A	EMX6-FR:	15 single slot EMR series modules
Signal Level:	800mV p-p		(@ 220 VAC nominal)	EMX3-FR:	5 single slot EMR series modules
Impedance:	75Ω terminating	Max Power Consumption:		•	
Return Loss:	> 15dB typical (5-1500MHz)		850 W	Weight:	
	>10dB typical (1.5-3GHz)	Max Module Load:	650 W (40 W per slot)	EMX6-FR:	Approx. 34.8 lbs (15.8 kg) with 2
Cable Equalization:	Belden 1855A, 300m @ 270MHz	Power Supply Configur	ation:		power supplies, no slots occupied
	Belden 1855A, 100m @ 1.5GHz		1 supply standard, optional		Approx. 64.0 lbs (29 kg) with 2
Connectors:	DIN 1.0/2.3		redundant supply requires separate inlet		power supplies, all slots occupied
Video Outputs:		Connector:	IEC 60320 - 1 per power supply	EMX3-FR:	Approx. 17.4 lbs (7.9 kg) with 2
Formats:	Same as input				power supplies, no slots occupied
Reclocking:	Configurable	EMX3-FR:			Approx. 32.0 lbs (14.5 kg) with 2
Non-Reclocking:	Configurable	AC Mains Input:	Auto ranging, 100 ↔ 240 VAC,		power supplies, all slots occupied
Signal Level:	800mV p-p ±10%		50/60 Hz		
Impedance:	75Ω terminating	Max Operating Current	: 4.6 A (@ 100 V/60Hz),		
Return Loss:	> 15dB typical (5MHz-1500MHz)		1.85A (@ 240 V/50Hz)		
	> 10dB typical (1.5GHz-3GHz)	Max Power Consumption			
DC Offset:	0±0.5V		450 W		
Output Jitter:	0.2UI	Max Module Load:	360 W (24 W per slot)		
Connectors:	DIN 1.0/2.3	Power Supply Configur			
			1 supply standard, optional		
Switching Reference			redundant supply requires separate		
Reference Inputs:	2x BNC, analog 525/625/tri-level HD		inlet		
Signal Level:	1V p-p ±3dB	Connector:	IEC 60320 - 1 per power supply		
Impedance:	75Ω terminating				
Connectors:	BNC per IEC 61169-8 Annex A				

Ordering Information - EMR Video Router

EMX6-FR EMX3-FR EMX-FC	EMX 6RU Router Chassis with 15 slots EMX 3RU Router Chassis with 5 slots EMX frame controller	Ordering Options +6PS +3PS	Redundant Power Supply for EMX6-FR Redundant Power Supply for EMX3-FR
SC-2000 SC-2000-R EMR-IP32H EMR-IP32-3G	2RU System Controller Redundant System Controller (fits into SC-2000 chassis) 32 HD/SD inputs with 3 X-Link outputs 32 3G/HD/SD inputs with 3 X-Link outputs	Fiber Optic Module SFP3T-13-2 SFP3R-2	Dual optical SFP fiber transmitter module Dual optical SFP fiber receiver module
EMR-OP32H EMR-OP32-3G EMR-XPT-288X288 EMR-XPT-160x160	32 HD/SD outputs with 2 X-Link inputs 32 3G/HD/SD outputs with 2 X-Link inputs Crosspoint with 9 X-Link inputs and 9 X-Link outputs Crosspoint with 5 X-Link inputs and 5 X-Link outputs		



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