

# EMR-64x64-3G

## 64x64 HD/3G/12G Modular Router



The EMR-64x64-3G is a 64-input by 64-output modular router designed to natively switch SD, HD and 3G signals. It supports UHD signals as quad-link using deterministic routing. Single-link 12G UHD support can also be added as a feature key.

A variety of different rear plates are available that provide connections via HDBNC, fiber or a combination of both.

For maximum control flexibility, this router can be used in conjunction with Evertz® award-winning MAGNUM Unified Control System. Or, for smaller systems, the router can host a number of Evertz® control panel models over Ethernet.

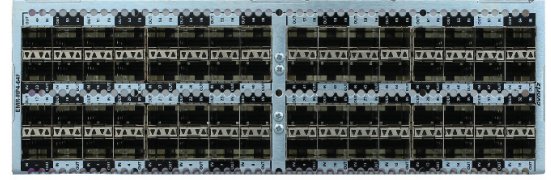
**Control:** The EMR-64x64-3G is housed in any of the standard Evertz® EMX6 or EMX3 frames supporting dual frame controllers, providing redundant control connections.

**Remote Control Panel:** Any traditional or simple Evertz® control panels can be used with the EMR-64x64-3G while hosted either locally or through the control system.

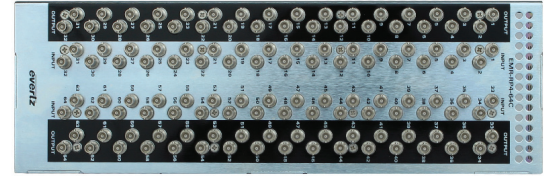
**External Third-Party Control:** The EMR-64x64-3G can be controlled remotely via external third-party control devices, such as an automated system.

**Power Supply:** The EMR-64x64-3G is housed in standard Evertz® EMX6 or EMX3 frames, both of which support dual hot-swappable power supplies ensuring continuous operation.

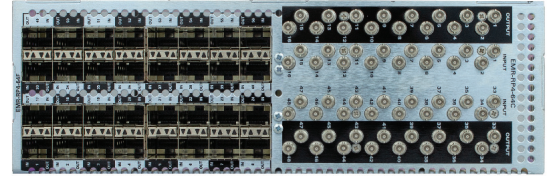
**Technical:** The EMR-64x64-3G offers a full 3Gb/s bandwidth. 12G support is also available as a feature key. Automatic bitrate detection on the input equalizer allows any mix of HD, 3G and 12G signals in the same unit.



EMR-RP4-64F



EMR-RP2-32C



EMR-RP2-16C-16F

### Features & Benefits

- Designed with up to 12Gb/s input EQs and output reclockers
- Full broadcast specifications
- Quartz over IP router control
- Redundant Ethernet network connections
- Redundant Power
- Full VistaLINK® PRO command and control, SNMP
- Output up to 12G — reclocking on/off
- Rear plate support for HDBNC, fiber or both

### Specifications

<b>Serial Video Inputs:</b>		<b>Max Operating Current:</b>		<b>Power Supply Configuration:</b>	
Standard:	4K-UHD (4-wire SQD/2SI or single-link with feature key), 3G, HD		9.5A (@ 115V AC nominal) 4.0A (@ 220V AC nominal)		1 supply standard, optional redundant supply requires separate inlet
<b>Serial Video Outputs:</b>		<b>Max Power Consumption:</b>		<b>Connector:</b>	
Standard:	Same as input		650 watts (40 watts per slot)	Fuses:	IEC 60320-1 per power supply 6.3A, 250V ceramic time delay 5 x 20 mm — 2 per power supply
<b>Switching Reference:</b>		<b>Power Supply Configuration:</b>		<b>Physical:</b>	
Reference inputs:	2x BNC, Analog 625/525/Tri-level		1 supply standard, optional redundant supply requires separate inlet	Dimensions:	EMX6-FR: 19"W x 10.5"H x 15.75"D (483mm W x 266mm H x 400mm D) EMX3-FR: 19"W x 5.25"H x 15.75"D (483mm W x 133mm H x 400mm D)
Signal level:	1V p-p ± 3dB	Connector:	IEC 60320-1 per power supply	EMX3-FR:	19"W x 5.25"H x 15.75"D (483mm W x 133mm H x 400mm D)
Impedance:	75Ω	Fuses:	5 x 20 mm — 2 per power supply	Temperature:	0-40°C
<b>Control:</b>		<b>EMX3-FR:</b>		<b>Module Capacity:</b>	
Ethernet:	2x RJ-45	AC Mains Input:	Auto-ranging, 100↔240V AC, 50/60Hz	EMX6-FR:	15 single-slot modules
Protocol:	SNMP, Quartz Protocol	Max Operating Current:	4.6A (@ 100V / 60Hz) 1.85A (@ 240V / 50Hz)	EMX3-FR:	5 single-slot modules
Serial Signal:	RS-232/RS-422	Max Power Consumption:	450 watts (90 watts per slot)	Weight:	EMX6-FR: Full: 64 lbs (29 kg) Empty: 34.8 lbs (16 kg) EMX3-FR: Full: 32 lbs (14.5 kg) Empty: 17.4 lbs (8 kg)
<b>Electrical:</b>		<b>EMX6-FR:</b>			
AC Mains Input:	Auto-ranging, 100↔240V AC, 50/60Hz				

### Ordering Information

<b>EMR-64x64-3G</b>	64x64 HD/3G/12G Modular Router
<b>Ordering Options:</b>	
<b>EMX Frames:</b>	
EMX6-FR	EMX 6RU Router Chassis with 15 slots
EMX3-FR	EMX 3RU Router Chassis with 5 slots
EMX-FC	EMX frame controller
<b>EMX Rear Plates:</b>	
EMR-RP4-64C	Rear plate with 64x64 HDBNC
EMR-RP4-64F	Rear plate with 64x SFP Transceiver ports
EMR-RP4-32C-32F	Rear plate with 32x HDBNC plus 32x SFP Transceiver ports
<b>EMX Power Supplies:</b>	
+6PS	Redundant Power Supply for EMX6-FR
+3PS	Redundant Power Supply for EMX3-FR

<b>EMX Optional Features:</b>	
EMR-FK-12G	Support for 64x64 single-link 12G UHD signals
EMR-FK-CS6	Enable up to 6x paths of clean switch and Evertz® patented SoftSwitch technology for the EMR-32x32-3G and EMR-64x64-3G routers
<b>SFP Options:</b>	
SFPTR-13-R	SFP Reclocked Transceiver, 1310nm, standard sensitivity receiver, supports rates to 3Gb/s
SFPTR-DIN-R	SDI SFP Coaxial Transceiver, reclocking, DIN 1.0/2.3
SFP3TR-BP-DIN-3G	SD/HD/3G Reclocking SFP Transceiver with built-in Bypass relay and DIN connectors
SFP3TR-13-12G	12Gb/s Fiber dual LC SDI video transceiver, 1310nm, SF
SFP3TR-12G-DIN	12Gb/s SDI video transceiver SFP

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