

# EMR-64x64-3G

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



EMR-64x64-3G is a 64-input by 64-output modular router designed to natively switch 12G, 3G and HD signals. It supports UHD signals as quad-link using deterministic routing. Single-link 12G UHD support can also be enabled with 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, EMR-64x64-3G 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:** 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 panel can be used with EMR-64x64-3G while hosted either locally or through the control system.

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

**Power Supply:** 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:** EMR-64x64-3G offers a full 3Gb/s bandwidth. 12G support can also be enabled with a feature key. Automatic bit rate detection on the input equalizer allows any mix of 12G, 3G and HD signals in the same unit. Clean and quiet switching is also available on four outputs with a feature key.

### ► 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
- Compatible with VistaLINK® PRO Command and Control, SNMP
- Output up to 12G — reclocking on/off
- Clean and quiet switching for 4x outputs (feature key)
- Rear plate support for HDBNC, fiber or both

### ► Specifications

#### Serial Video Inputs:

Standard: 4K-UHD (4-wire SQD/2SI or single-link with feature key), 3G, HD

#### Serial Video Outputs:

Standard: Same as input

#### Switching Reference:

Reference inputs: 2x BNC, analog 625/525/tri-level  
Signal level: 1V p-p ± 3dB  
Impedance: 75Ω

#### Control:

Ethernet: 2x RJ-45  
Protocol: SNMP, Quartz protocol  
Serial Signal: RS-232/RS-422

#### Electrical:

##### EMX6-FR:

AC Mains Input: Auto-ranging 100-240V AC, 50/60Hz

Max Operating Current: 9.5A (@ 115V AC nominal)  
4.0A (@ 220V AC nominal)

Max Power Consumption: 650W (40W per slot)

Power Supply Configuration: 1 supply standard, optional redundant supply requires separate inlet  
Connector: IEC 60320-1 per power supply  
Fuses: 6.3A, 250V ceramic time delay  
5 x 20 mm — 2 per power supply

##### EMX3-FR:

AC Mains Input: Auto-ranging 100-240V AC, 50/60Hz

Max Operating Current: 4.6A (@ 100V / 60Hz)  
1.85A (@ 240V / 50Hz)

Max Power Consumption: 450W (90W per slot)

Power Supply Configuration: 1 supply standard, optional redundant supply requires separate inlet  
Connector: IEC 60320-1 per power supply  
Fuses: 6.3A, 250V ceramic time delay  
5 x 20 mm — 2 per power supply

#### Physical:

##### 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)

##### Temperature:

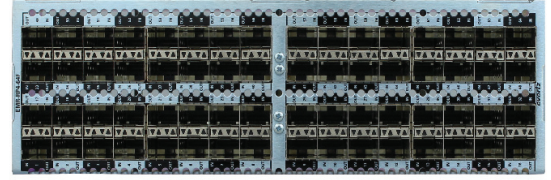
0-40°C

##### Module Capacity:

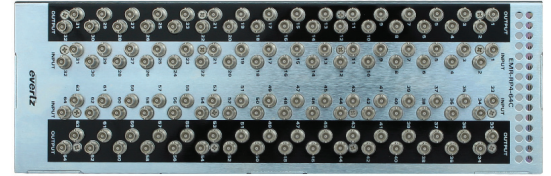
EMX6-FR: 15x single-slot modules  
EMX3-FR: 5x single-slot modules

##### Weight:

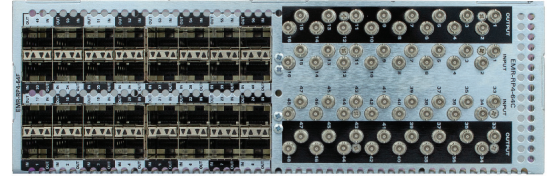
EMX6-FR: Full: 64 lbs (29 kg)  
Empty: 34.8 lbs (16 kg)  
EMX3-FR: Full: 32 lbs (14.5 kg)  
Empty: 17.4 lbs (8 kg)



EMR-RP4-64F



EMR-RP4-64C



EMR-RP4-32C-32F

**Ordering Information**

**EMR-64x64-3G** 64x64 12G/3G/HD modular router

**Ordering Options:**

**EMX Frames:**

**EMX6-FR** EMX 6RU router chassis with 15 slots  
**EMX3-FR** EMX 3RU router chassis with 5 slots  
**EMX-FC** EMX frame controller

**EMX Rear Plates:**

**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

**EMX Power Supplies:**

**+6PS** Redundant power supply for EMX6-FR  
**+3PS** Redundant power supply for EMX3-FR

**EMX Optional Features:**

**EMR-FK-12G** Support for 64x64 single-link 12G UHD signals  
**EMR-FK-CS6** Enable up to 6x paths of CleanSwitch and Evertz' patented SoftSwitch technology for the EMR-32x32-3G and EMR-64x64-3G routers

**SFP Options:**

**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-HDBNC-12G** 12Gb/s SDP video transceiver SFP with HDBNC connectors