

# EMR-32x32-3G

## 32x32 HD/3G/12G Modular Router



The EMR-32x32-3G is a 32-input by 32-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.

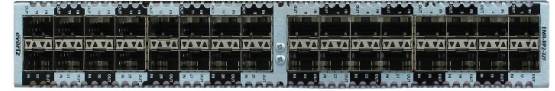
**Control:** The EMR-32x32-3G is housed in any of the standard Evertz® EMX6, EMX3 or EMX1 frames supporting dual frame controllers, providing redundant control connections.

**Remote Control Panel:** Any traditional or simple Evertz® control panels can be used with the EMR-32x32-3G while hosted either locally or through the control system.

**External Third-Party Control:** The EMR-32x32-3G can be controlled remotely via external third-party control devices, such as an automated system.

**Power Supply:** The EMR-32x32-3G is housed in standard Evertz® EMX6, EMX3 or EMX1 frames, all of which support dual hot-swappable power supplies ensuring continuous operation.

**Technical:** The EMR-32x32-3G 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-RP2-32F



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/Outputs:</b>  |  | <b>Fuses:</b>  | 6.3A, 250V ceramic time delay<br>5 x 20 mm — 2 per power supply            | <b>Power Supply Configuration:</b> | 1 supply standard, optional<br>redundant supply requires<br>separate inlet |
| Standard:  | 4K-UHD (4-wire SQD/2SI or<br>single-link with feature key), 3G, HD | <b>EMX3-FR:</b>  | <b>AC Mains Input:</b> Auto-ranging, 100→240V AC,<br>50/60Hz               | <b>Connector:</b>                  | IEC 60320-1 per power supply   |
| <b>Switching Reference:</b>  |  | <b>Max Operating Current:</b>                                | 4.6A (@ 100V / 60Hz)<br>1.85A (@ 240V / 50Hz)                              | <b>Fuses:</b>                      | 6.3A, 250V ceramic time delay<br>5 x 20 mm — 2 per power supply            |
| Reference inputs:  | 2x BNC, Analog 625/525/Tri-level                                   | <b>Max Power Consumption:</b>                                | 450 watts (90 watts per slot)  | <b>Physical:</b>                   |  |
| Signal level:  | 1V p-p ± 3dB   | <b>Power Supply Configuration:</b>                           | 1 supply standard, optional<br>redundant supply requires<br>separate inlet | <b>Dimensions:</b>                 |  |
| Impedance:   | 75Ω  | <b>Connector:</b>  | IEC 60320-1 per power supply   | <b>EMX6-FR:</b>                    | 19"W x 10.5"H x 15.75"D<br>(483mm W x 266mm H x 400mm D)                   |
| <b>Control:</b>  |  | <b>Fuses:</b>  | 6.3A, 250V ceramic time delay<br>5 x 20 mm — 2 per power supply            | <b>EMX3-FR:</b>                    | 19"W x 5.25"H x 15.75"D<br>(483mm W x 133mm H x 400mm D)                   |
| Ethernet:  | 2x RJ-45   | <b>EMX1-FR:</b>  |  | <b>EMX1-FR:</b>                    | 19"W x 1.75"H x 18.75"D<br>(483mm W x 45mm H x 477mm D)                    |
| Protocol:  | SNMP, Quartz Protocol  | <b>AC Mains Input:</b> Auto-ranging, 100→240V AC,<br>50/60Hz |  | <b>Temperature:</b>                | 0-40°C   |
| Serial Signal:   | RS-232/RS-422  | <b>Max Operating Current:</b>                                | 8.5A (@ 100V / 60Hz)<br>3.5A (@ 240V / 50Hz)                               | <b>Module Capacity:</b>            |  |
| <b>Electrical:</b>   |  | <b>Max Power Consumption:</b>                                | 250 watts (125 watts per slot)   | <b>EMX6-FR:</b>                    | 15 single-slot modules   |
| <b>EMX6-FR:</b>  |  | <b>Power Supply Configuration:</b>                           | 1 supply standard, optional<br>redundant supply requires<br>separate inlet | <b>EMX3-FR:</b>                    | 5 single-slot modules  |
| <b>AC Mains Input:</b> Auto-ranging, 100→240V AC,<br>50/60Hz               |  | <b>Connector:</b>  | IEC 60320-1 per power supply   | <b>EMX1-FR:</b>                    | 2 single-slot modules  |
| <b>Max Operating Current:</b>  |  | <b>Fuses:</b>  | 6.3A, 250V ceramic time delay<br>5 x 20 mm — 2 per power supply            | <b>Weight:</b>                     |  |
| 9.5A (@ 115V AC nominal)<br>4.0A (@ 220V AC nominal)                       |  | <b>EMX6-FR:</b>  |  | <b>EMX6-FR:</b>                    | Full: 64 lbs (29 kg)<br>Empty: 34.8 lbs (16 kg)                            |
| <b>Max Power Consumption:</b>  |  | <b>EMX3-FR:</b>  |  | <b>EMX3-FR:</b>                    | Full: 32 lbs (14.5 kg)<br>Empty: 17.4 lbs (8 kg)                           |
| 650 watts (40 watts per slot)  |  | <b>EMX1-FR:</b>  |  | <b>EMX1-FR:</b>                    | Full: 22 lbs (10 kg)<br>Empty: 15 lbs (6.8 kg)                             |
| <b>Power Supply Configuration:</b>   |  |  |  |                                    |  |
| 1 supply standard, optional<br>redundant supply requires<br>separate inlet |  |  |  |                                    |  |
| <b>Connector:</b>  | IEC 60320-1 per power supply                                       |  |  |                                    |  |

### Ordering Information

|                     |                                |
|---------------------|--------------------------------|
| <b>EMR-32x32-3G</b> | 32x32 HD/3G/12G Modular Router |
|---------------------|--------------------------------|

#### Ordering Options:

|                |                                      |
|----------------|--------------------------------------|
| <b>EMX6-FR</b> | EMX 6RU Router Chassis with 15 slots |
| <b>EMX3-FR</b> | EMX 3RU Router Chassis with 5 slots  |
| <b>EMX1-FR</b> | EMX 1RU Router Chassis with 2 slots  |
| <b>EMX-FC</b>  | EMX frame controller                 |

#### EMX Power Supplies:

|             |                                    |
|-------------|------------------------------------|
| <b>+6PS</b> | Redundant Power Supply for EMX6-FR |
| <b>+3PS</b> | Redundant Power Supply for EMX3-FR |
| <b>+1PS</b> | Redundant Power Supply for EMX1-FR |

#### EMX Rear Plates:

|                        |  |
|------------------------|--|
| <b>EMR-RP2-32C</b>     | Rear plate with 32x32 HDBNC                              |
| <b>EMR-RP2-32F</b>     | Rear plate with 32x SFP Transceiver ports                |
| <b>EMR-RP2-16C-16F</b> | Rear plate with 16x HDBNC plus 16x SFP Transceiver ports |

#### EMX Optional Features:

|                   |  |
|-------------------|--|
| <b>EMR-FK-12G</b> | Support for 32x32 single-link 12G UHD signals  |
| <b>EMR-FK-CS6</b> | Enable up to 6x paths of clean switch and Evertz® patented SoftSwitch technology for the EMR-32x32-3G and EMR-64x64-3G routers |

#### SFP Options:

|                         |   |
|-------------------------|---|
| <b>SFPTR-13-R</b>       | SFP Reclocked Transceiver, 1310nm, standard sensitivity receiver, supports rates to 3Gb/s |
| <b>SFPTR-DIN-R</b>      | SDI SFP Coaxial Transceiver, reclocking, DIN 1.0/2.3                                      |
| <b>SFP3TR-BP-DIN-3G</b> | SD/HD/3G Reclocking SFP Transceiver with built-in Bypass relay and DIN connectors         |
| <b>SFP3TR-13-12G</b>    | 12Gb/s Fiber dual LC SDI video transceiver, 1310nm, SF                                    |
| <b>SFP3TR-12G-DIN</b>   | 12Gb/s SDI video transceiver SFP  |

The Complete Solution Provider

