7700R16x16-HD, 7700R16x16-3G

16x16 SD/HD/3G Modular Router

The 7700R16x16 is a small form factor router designed for critical applications where size is limited, whether for existing facilities who have run out of rack space or for trucks and vans. The 7700R16x16 uses up only 3 slots of a traditional Evertz 7700FR and has its own integrated controller. This means five 16x16 routers can fit in just 3RU.

The router is format independent supporting signals from 3MB/s up to 3GB/s including SMPTE310, SD-SDI, ASI, HD-SDI and 3G.

The 7700R16x16 router has a number of control options.

Control: The 7700R16x16 router is compatible with the existing ranges of Quartz routers, remote control panels and control systems.

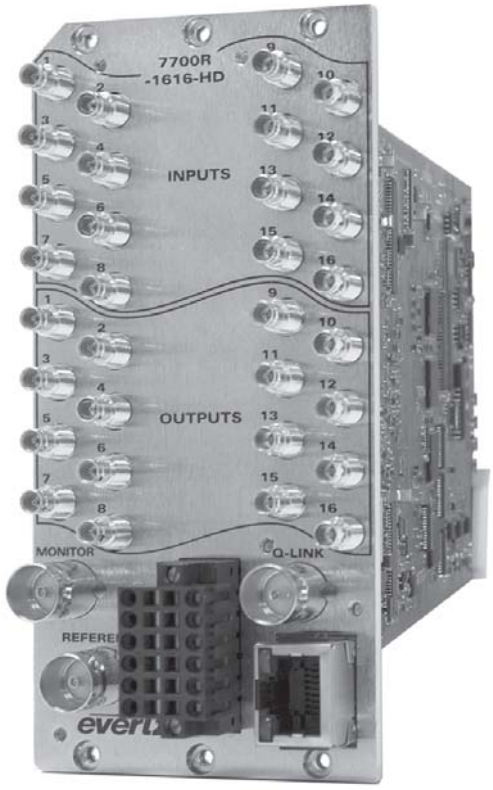
The7700R16x16 router is a fully independent stand alone router including an internal Frame Controller module which supports a single Q-Link, dual serial ports and an Ethernet port on the rear of the router.

Remote Control Panel: Any panel(s) from the entire range of Quartz remote control panels can be used with the 7700R16x16 router connected via Q-Link or Ethernet.(Exceptions: CP-1024E, CP-2272E)

External Third Party Control: The 7700R16x16 router can be remotely controlled via an external third party control device, such as an automation system, when connected to the router's serial port or Ethernet port.

Power Supply: The 7700R16x16 is housed in the typical Evertz 7700FR frame and so can be run with dual power supplies ensuring continuous operation.

Technical: The 7700R16x16 Router offers a full 3Gb/s bandwidth to handle uncompressed HD signals. Automatic Bit Rate Detection on the input equalizer allows any mix of HD and SD signals in the same unit.



Features & Benefits

- Full broadcast specifications
- Powerful built-in control systems
- Ethernet, serial RS-422/RS-232 and QLink ports
- Full VistaLINK® PRO command & control, SNMP
- Output reclocking On/Off
- Compatible with all Quartz routers and remote control panels
- Monitoring output

Specifications

Serial Video Inputs:

Standard	SMPTE 292M, SMPTE 259M, SMPTE 310M, SMPTE 424M, ASI
Signal Level	800mV p-p nominal
Impedance	75Ω terminating
Return Loss	15dB (5MHz - 1485MHz)
Cable equalization	Belden 1855A 300m @270MHz 100m @ 1.5Gb/s
Connectors	DIN 1.0/2.3

Serial Video Outputs:

Standard	Same as input (Reclocking)
Signal Level	800mV p-p ± 10%
Impedance	75Ω terminating
Return Loss	15dB (5 - 1485MHz)
DC offset	0 ± 0.5V
Connectors	DIN 1.0/2.3

Switching Reference:

Reference inputs	Analogue 625 or 525 Tri-level
Signal level	1V p-p ± 3dB
Impedance	75Ω
Switching Line	Lines 6/319 (625) Lines 10/273 (525) Line 7 (HD)

Control:

Q-Link to remote panels

Cable Type	75Ω video cable
Max Length	500m
Serial Signal	RS-232/RS-422
Connector	Terminal block socket
Ethernet	RJ45

Power:

Supply	Auto ranging 100-240V AC, 50/60Hz
Power Consumption	26W
Connector	Screw Terminals
Redundant PSU	Optional

Physical (number of slots) :

7700FR-C	3
7800FR	3

Ordering Information

7700R16x16-HD	16x16 SD/HD Modular Router
7700R16x16-3G	16x16 SD/HD/3G Modular Router

Ordering Options Rear Plate must be specified at time of order
Eg. Model +3RU

Rear Plate Suffix

+3RU	3RU Rear Plate for use with 7700FR-C or 7800FR Multiframe

Enclosures

7700FR-C	3RU Multiframe which holds up to 15 single slot modules
7800FR	3RU Multiframe which holds up to 15 single slot modules

The Complete Solution Provider