

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 three slots of a traditional Evertz® 7700FR and has its own integrated controller. This means that five 16x16 routers can fit into just 3RU.

The router is format independent, supporting signals from 3MB/s up to 3GB/s including SMPTE ST 310-1, 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.

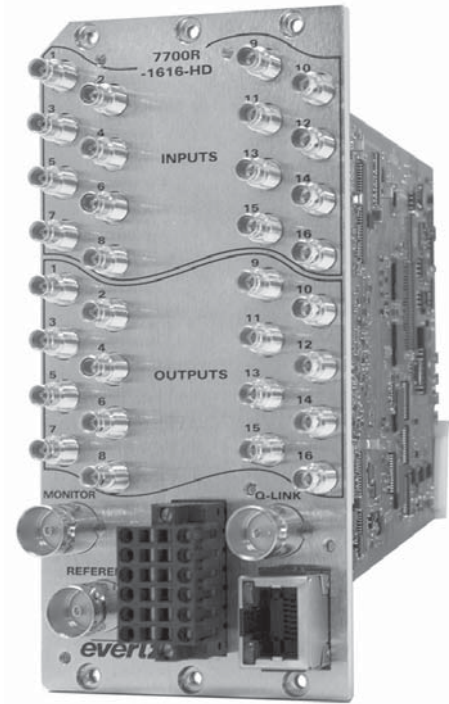
The 7700R16x16 router is a fully independent, stand alone router. It includes an internal Frame Controller module which supports a single Q-Link, dual serial ports and an Ethernet port on the rear of the router.

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, CP-1040E)

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:		Switching Reference:		Power:	
Standard:	SMPTE ST 292-1, SMPTE ST 259-1, SMPTE ST 310-1, SMPTE ST 424, ASI	Reference inputs	Analogue 625 or 525 Tri-level	Supply:	Auto ranging 100-240V AC, 50/60Hz
Signal Level:	800mV p-p nominal	Signal level	1V p-p ± 3dB	Power Consumption:	26W
Impedance:	75Ω terminating	Impedance	75Ω	Connector:	Screw Terminals
Return Loss:	15dB (5MHz - 1485MHz)	Switching Line	Lines 6/319 (625) Lines 10/273 (525) Line 7 (HD)	Redundant PSU:	Optional
Cable equalization:	Belden 1855A 300m @270MHz 100m @ 1.5Gb/s	Control:		Physical (number of slots) :	
Connectors:	DIN 1.0/2.3	Q-Link to remote panels:		7700FR-C	3
Serial Video Outputs:		Cable Type:		7800FR	3
Standard:	Same as input (Reclocking)	75Ω video cable			
Signal Level:	800mV p-p ± 10%	Max Length:			
Impedance:	75Ω terminating	500m			
Return Loss:	15dB (5 - 1485MHz)	Serial Signal:			
DC offset:	0 ± 0.5V	RS-232/RS-422			
Connectors:	DIN 1.0/2.3	Connector:			
		Terminal block socket			
		Ethernet:			
		RJ45			

► Ordering Information

7700R16x16-HD	16x16 SD/HD Modular Router	Rear Plate Suffix +3RU	3RU Rear Plate for use with 7700FR-C or 7800FR Multiframe
7700R16x16-3G	16x16 SD/HD/3G Modular Router	Enclosures 7700FR-C 7800FR	3RU Multiframe which holds up to 15 single slot modules 3RU Multiframe which holds up to 15 single slot modules
Ordering Options	Rear Plate must be specified at time of order (Eg. Model +3RU)		