

7700R-16x16

16x16 SD/HD/3G Modular Router

The 7700R-16x16 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 7700R-16x16 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 7700R-16x16 router has a number of control options, they are:

Control: The 7700R-16x16 router is compatible with the existing ranges of Quartz routers, remote control panels and control systems.

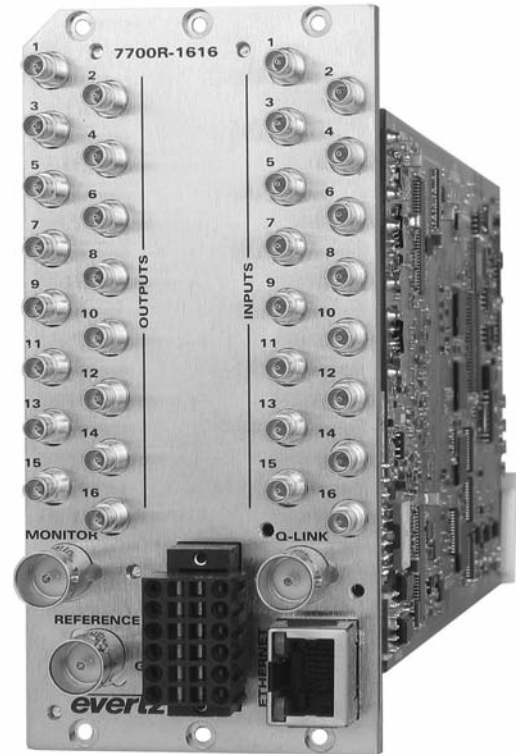
The 7700R-16x16 router is a fully independent stand alone router including an internal Frame Controller module which supports a single Q-Link, Dual serial ports, GPIO and an Ethernet port on the rear of the router.

Remote Control Panel: Any panel(s) from the entire range of Quartz remote control panels can be used with the 7700R-16x16 router connected via Q-Link or Ethernet.

External Third Party Control: The 7700R-16x16 router can be remotely controlled via an external third party control device, such as an automation system, when connected to the routers serial port.

Power Supply: The 7700R-16x16 is housed in the typical Evertz 7700FR frame and so can be run with dual power supplies ensuring continuous operation

Technical: The 7700R-16x16 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
- Fan cooled
- Powerful built-in control systems
- Q-Link and Serial control
- Ethernet control
- Compatible with all Quartz routers and remote control panels
- Frames can be segmented into multiple smaller routers

►Specifications

Serial Video Inputs:		Switching Reference:		Power:	
Standard	SMPTE 292M, SMPTE 259M, SMPTE 310M, SMPTE 424M, 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	TBA
Impedance	75Ω terminating	Impedance	75Ω	Power Fail Alarm Output	
Return Loss	15dB (5 - 270MHz)	Switching Line	Lines 6/319 (625) Lines 10/273 (525)Line 7(HD)	Relay Contact	Rated 250mA, 50V
Cable equalization	Belden 1694A 300m @270Mhz 100m @ 1.5Gb/s			Connector	Screw Terminals
Connectors	BNC per IEC 61169-8 Annex A			Redundant PSU	Optional
Serial Video Outputs:		Control:		Physical:	
Standard	Same as input (Reclocking)	Q-Link to remote panels		Number of Slots:	3
Signal Level	800mV p-p ± 10%	Cable Type	75Ω video cable		
Impedance	75Ω terminating	Max Length	500m		
Return Loss	15dB (5 - 270MHz)	Serial			
DC offset	0 ± 0.5V	Signal	RS-232/422		
Connectors	BNC per IEC 61169-8 Annex A	Connector	Terminal block socket		
Signal Path		Ethernet	RJ45		
Rise/fall times	0.6 to 0.9ns				
Path length	12ns, typical				
Output jitter	0.2UI p-p with < 250m input cable				

►Ordering Options

7700R-16x16	16x16 SD/HD/3G Modular Router	Rear Plate Suffix	
Ordering Options	Rear Plate must be specified at time of order Eg. Model +3RU	+3RU	3RU Rear Plate for use with 7700FR-C Multiframe
		+SA	Standalone Enclosure Rear Plate
		Enclosures	
		7700FR-C	3RU Multiframe which holds up to 15 single slot modules
		S7702FR	Standalone Enclosure