

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, they are:

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

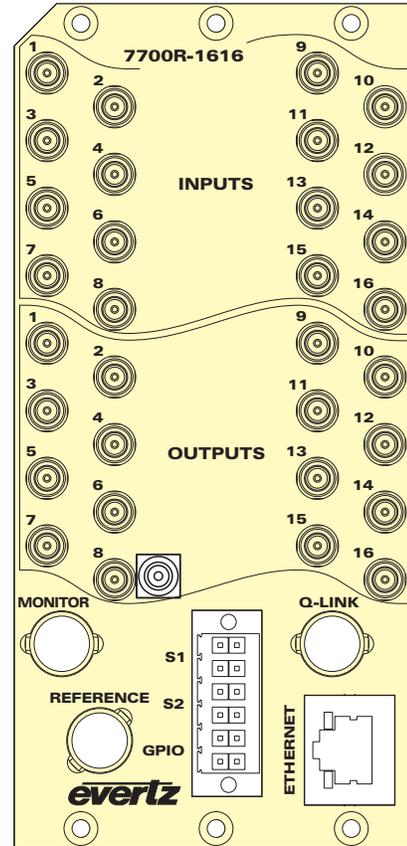
The 7700R16x16 router is a fully independent stand alone router including an internal Frame Controller module which supports a single Q-Link, Dual serial ports, GPIO and an Ethernet port on the rear of the router.

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

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.

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 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	Connector	Screw Terminals
Return Loss	15dB (5 - 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:	
Connectors	DIN 1.0/2.3	Q-Link to remote panels		Number of Slots:	3
Serial Video Outputs:		Cable Type	75Ω video cable		
Standard	Same as input (Reclocking)	Max Length	500m		
Signal Level	800mV p-p ± 10%	Serial Signal	RS-232/422		
Impedance	75Ω terminating	Connector	Terminal block socket		
Return Loss	15dB (5 - 1485MHz)	Ethernet	RJ45		
DC offset	0 ± 0.5V				
Connectors	DIN 1.0/2.3				

► 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
+SA

3RU Rear Plate for use with 7700FR-C Multiframe
Standalone Enclosure Rear Plate

Enclosures
7700FR-C
S7702FR

3RU Multiframe which holds up to 15 single slot modules
Standalone Enclosure