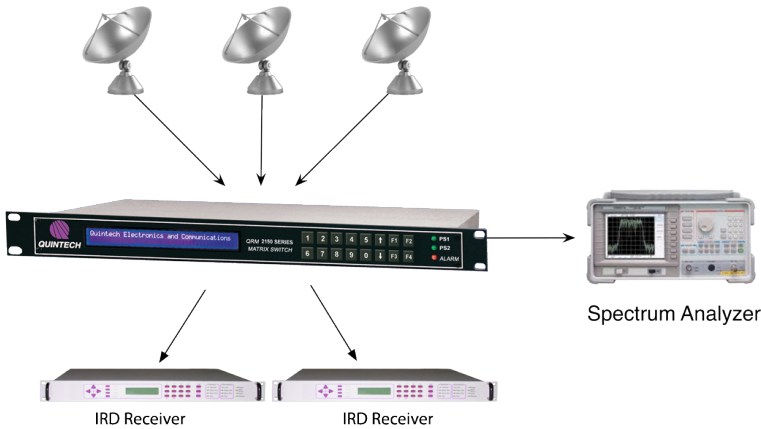


16 x 16 RF Matrix Routing Switch with **Q-ROUTE & Q-SENSE**



QRM 2500



General Description:

The QRM is a full fan-out RF matrix switch that can be fully populated as a 16x16. Available in 1 RU as 8x8, 8x16, 16x8 and 16x16. The 8x8 can be expandable to full 16x16 with purchase of access code. The QRM can be easily expanded to a maximum system size of 32x32 by adding additional modules. The QRM features Quitech's latest **Q-ROUTE™** and **Q-SENSE™** technology, which provides maximum reliability with signal path redundancy and auto re-route capabilities. The QRM's operating frequency range covers L-band, IF and Broadband. It also offers manual and AGC modes. It is controllable either locally via the front panel keypad or remotely over Ethernet and is compatible with most monitoring and control systems.

Features & Benefits:

- Compact Design - 16x16 in 1RU
- Operating Frequencies covers Broadband 50-1000MHz, IF 50-200MHz or L-band 950-2150MHz
- Full fan-out switching
- Manual Gain & AGC modes with a range of -15 dB to +16 dB in 0.5 dB step
- Remotely controlled via web browser interface, Ethernet or Telnet via customer supplied PC
- Re-configure signal paths in milliseconds
- **Q-ROUTE™** Provides internal signal path redundancy by automatically re-routing around a failed signal path
- **Q-SENSE™** Provides external signal path redundancy by automatic switching to a back-up input signal, if alternate is selected²

Applications:

- Route multiple satellite feeds to multiple receivers or modems
- Automatically route signals for monitoring & control
- Monitor input levels to detect loss of signal conditions
- Re-configure test beds for compliance & interoperability testing
- Automatically connect back-up signal on primary feed loss

²Q-Sense not available on all configurations. Limited to a maximum of 16 inputs.

*Specifications:	L-band	IF	Broadband
Operating Frequency:	950-2150 MHz	50-200 MHz	50-1000 MHz
Configurations:	8x8 up to 32x32	8x8 up to 32x32	8x8 up to 32x32
Frequency Response:	± 1.5 dB ± 0.4 dB Over any 36 MHz channel	± 2.25 dB ± 0.6 dB Over any 36 MHz channel	± 2 dB ± 0.6 dB Over any 36 MHz channel
Isolation:	65 dB Input to Input 60 dB Output to Output 50 dB Input to Output	65 dB Input to Input 60 dB Output to Output 55 dB Input to Output	60 dB Input to Input 60 dB Output to Output 45 dB Input to Output
RF Input Power :	-10 dBm to -70 dBm	-10 dBm to -70 dBm	-10 dB to -70 dB
Gain Range (Manual mode):	-15 dB to +16 dB in 0.5 dB Steps	-15 dB to +16 dB in 0.5 dB Steps	-15 dB to +16 dB in 0.5 dB Steps
RF Sensing and AGC Range:	-10 dBm to -50 dBm	-10 dBm to -50 dBm	-10 dBm to -50 dBm
Input P1dB:	+2 dBm	-3 dBm	-2 dBm
OIP3:	+10 dBm	+8 dBm	8 dBm
Input Return Loss :	+14 dB	+14 dB	+ 14 dB
Output Return Loss:	+14 dB	+14 dB	+ 14 dB
Noise Figure :	<18 dB @ 0 dB <9.5 dB @ 16 dB	<18 dB @ 0 dB <9.5 dB @ 16 dB	<20 dB @ 0 dB <11 dB @ 16 dB
RF Connectors:	BNC (50 or 75 Ω), Type "F", SMA Connectors		BNC, 50 or 75 Ω), Type "F"
Impedance:	50 Ω or 75 Ω	50 Ω or 75 Ω	50 Ω or 75 Ω
AC Input Power:	Auto ranging 100-240 VAC, 50/60 Hz		
Local Control:	Front Panel Keypad with LCD Display		
PC Remote Control:	RS-232, RS-485, SNMP, TELNet or TCP/IP via Customer Supplied PC, Web Browser Control		
Software:	Basic PC-compatible Software and Command Protocol Included		
Mechanical:	16 x 16 in 1RU: 1.75"H x 19"W x 18.5"D		
Power Consumption:	80W		
Weight:	14.5 lbs. Gross (boxed), 12.0 lbs. Net		

*Specifications may vary with connector type and system configurations. See data sheet for specific performance data.

