

## 32 Port Fan-Out Dual Band RF Matrix Switch

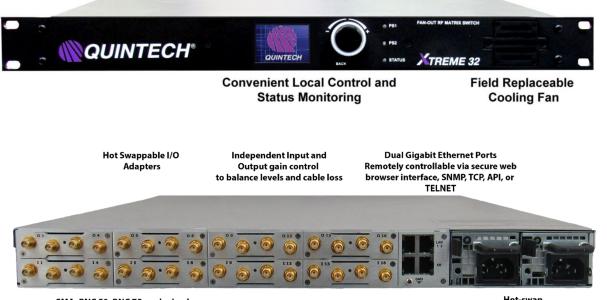
## QX12200V16X16CS4AA1000

16x16 SMA(f)

### Exclusive Flexible Matrix Architecture, Industry Leading Specifications, and Hot-Swappable Components Provide an *XTREME* Signal Management Solution

The **XTREME 32** Dual Band matrix switch is a full fan-out (distributive) non-blocking signal management solutior that routes an input to any or all outputs. The design features an industry exclusive architecture that supports both symmetric and asymmetric configurations of 32 combined inputs and outputs in a compact 1 RU chassis Hot-Swappable redundant power supplies, I/O Modules, and a field replaceable cooling fan provide maximum reliability.

50-200 MHz & 850-2500 MHz Operating RangeHot-swappable Input and Output AdaptersFlexible Matrix Configurations (16x16, 4x28, 8x24)Adjustable Input and Output GainOptional LNB Power 13/18 V with 22 kHz ToneRedundant HotDual Gigabit Ethernet PortsSwappable Power SuppliesField Replaceable Cooling Fan



SMA, BNC 50, BNC 75, and mixed connector configurations available.

Hot-swap Redundant Power Supplies



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#### **Specifications and Operating Conditions**

As Configured/Expandable to:	16x16		
RF Connectors:		SMA(f)	
Operating Frequency	50-200 MHz & 850-2500 MHz		
Operating Frequency:	50-200 MHz	950-2150 MHz	850-2500 MHz
Frequency Response: Default Gain: typically Centered @ 0 dB	+/- 2.5 dB	+/- 1.5 dB	+/- 2.5 dB
Any 36 MHz:	+/8 dB	+/5 dB	+/7 dB
Input P1dB:		•	-
Default Gain:	0 dBm min		
Max Input Gain:	-10 dBm typical *		
Noise Figure:			
Default Gain:	20 dB max	13 dB max	14 dB max
Max Input Gain:	10 dB typical *	9 dB typical *	10 dB typical *
OIP3:			
Default Gain:	9 dBm min	10 dBm min	9 dBm min
Input Return Loss:	12 dB min	14 dB min	12 dB min
Output Return Loss:	12 dB min	14 dB min	12 dB min
Isolation:			
Input to Input:		60 dB min	
Output to Output:		60 dB min	
Input to Output:	55 dB min	50 dB min	50 dB min
Input Gain Range:	-19.5 to 12 dB in .5 dB steps		
Output Gain Range:	-15.5	to 16 dB in .5 dB	steps
RF Sensing Range:		-50 to 0 dBm	
AGC Tracking Range:	-50	) to -10 dBm setpo	pint
Switching Speed:	150 mS per crosspoint typical *		
	<2 u	uS from break to n	nake
Maximum Input Power: (No Damage)	20 dBm (30 VDC max on any port)		

Control:				
Local Control:				
Front Panel 2.2" LCD Display with Rotary Knob				
Remote Control:				
Dual 10/100/1000 Base Tx Ethernet Ports				
SNMP	v2c, v3			
TCP/IP	Quintech 2.15 Protocol (Port 9100)			
Web Server				
Secure Web Server with Custom SSL Certificate				
TELNET with option to disable				
Macro Scripting Language to Automate Changes and Monitoring				
XR Bus Expansion Standard				
Optional Ethernet Expansion				
NTP Time Client				

Alarms and Logging:		
SNMP Traps on Status Change		
SNMP Trap on Crosspoint Change		
SysLog, SQL, or CSV Format Log File		
Q-Sense:		
Primary and Backup Input Pairs: Backup is automatically switched if the Primary Input falls below the threshold level.		

Power and Cooling Requirements:		
AC Input Range:	100-240 VAC Autoranging 50/60 Hz 5A max	
Hot-Swappable Redundant Supplies with Separate AC Inlets		
Power Consumption:	100 W typical, 350W with LNB option	
Fan:	Long-life ball bearing fan (field swappable)	
Input and Output RF Modules:	Hot Swappable	

Physical:		
Dimensions:	1 RU (1.75" H x 19" W x 18.5" D)	
Weight:	14 lbs. gross (boxed), 11.2 lbs. net	
Certifications:	CE, TUV NRTL, FCC Part 15	

Environmental Parameters:		
Operating Temperature:	0 to 50° C	
Storage Temperature:	-10° C to 75°C	
Humidity:	20 % to 90% non-condensing	
Altitude:	10,000 feet AMSL	

\* typical refers to expected product performance that is useful in application of the product but is not covered by the product warranty



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