

# **XTREME 32**

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

**QX12200V16X16CS4AA1001**

**16x16 SMA(f) LNB Power**

**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 solution 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 Range

Flexible Matrix Configurations (16x16, 4x28, 8x24)

LNB Power 13/18 V with 22 kHz Tone

Redundant Hot Swappable Power Supplies

Hot-swappable Input and Output Adapters

Adjustable Input and Output Gain

Dual Gigabit Ethernet Ports

Field Replaceable Cooling Fan



**Convenient Local Control and  
Status Monitoring**

**Field Replaceable  
Cooling Fan**

**Hot Swappable I/O  
Adapters**

**Independent Input and  
Output gain control  
to balance levels and cable loss**

**Dual Gigabit Ethernet Ports  
Remotely controllable via secure web  
browser interface, SNMP, TCP, API, or  
TELNET**



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

**Hot-swap  
Redundant Power Supplies**

**250 Airport Road • Indiana, PA 15701 • (800) 839-3658 • (724) 349-1412 • Fax: (724) 349-1421**

**<http://www.quintechelectronics.com/> • [info@quintechelectronics.com](mailto:info@quintechelectronics.com)**

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QX12200V16X16CS4AA1001 Rev K, CO# 33325 (Page 1 of 2)

COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV  
ISO 9001

**QUINTECH®**  
*The Source for RF Reliability*



# 32 Port Fan-Out Dual Band RF Matrix Switch

## Specifications and Operating Conditions

As Configured/Expandable to:	16x16		
RF Connectors:	SMA(f)		
Operating Frequency:	50-200 MHz & 850-2500 MHz		
	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 setpoint		
Switching Speed:	150 mS per crosspoint typical *		
	<2 uS from break to make		
Maximum Input Power: (No Damage)	20 dBm (30 VDC max on any port)		
LNB Power: Each Port			
	0/13/18 V, 22 kHz		
	250 W available, Individual ports limited to 750 mA		
	Short Circuit Protection with Automatic Reset		
	Status: Under Current (<50 mA), Short, and Normal		

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
Hot-Swappable Redundant Supplies with Separate AC Inlets	
Power Consumption:	100 W typical, 350 W 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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QX12200V16X16CS4AA1001 Rev K, CO# 33325 (Page 2 of 2)