

# XTREME 32

## 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 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)

Optional LNB Power 400 mA per Input 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

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COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV  
ISO 9001

 **QUITECH**<sup>®</sup>  
The Source for RF Reliability



# 32 Port Fan-Out Dual Band RF Matrix Switch

## Specifications and Operating Conditions

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

<b>Control:</b>	
<b>Local Control:</b>	
Front Panel 2.2" LCD Display with Rotary Knob	
<b>Remote Control:</b>	
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	

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

<b>Power and Cooling Requirements:</b>	
<b>AC Input Range:</b>	100-240 VAC Autoranging 50/60 Hz 5A max
<b>Hot-Swappable Redundant Supplies with Separate AC Inlets</b>	
<b>Power Consumption:</b>	100 W typical, 200 W with LNB option
<b>Fan:</b>	Long-life ball bearing fan (field swappable)
<b>Input and Output RF Modules:</b>	Hot Swappable

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

<b>Environmental Parameters:</b>	
<b>Operating Temperature:</b>	0 to 50° C
<b>Storage Temperature:</b>	-10° C to 75° C
<b>Humidity:</b>	20 % to 90% non-condensing
<b>Altitude:</b>	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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