XTREME 32

32 Port Fan-Out RF Matrix Switch

QX12200V4X8CC4AA1002

4x8 BNC(f) 50 Ω

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.

850-2500 MHz Operating Range Flexible Matrix	Hot-swappable Input and Output Adapters
Configurations (16x16, 4x28, 8x24)	Adjustable Input and Output Gain
Optional LNB Power 13/18 V with 22 kHz ToneRedundant Hot	Dual Gigabit Ethernet Ports
Swappable Power Supplies	Field Replaceable Cooling Fan

Convenient Local Control and Status Monitoring

Field Replaceable Cooling Fan

Independent Input and Output Gain control to balance input levels and cable loss

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

Hot-swappable I/O Adapters
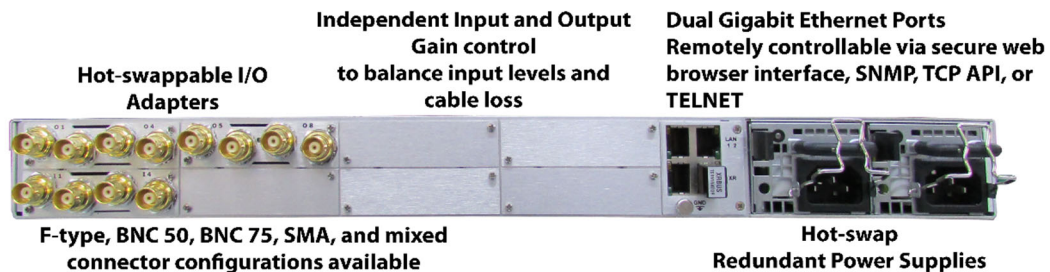
F-type, BNC 50, BNC 75, SMA, and mixed connector configurations available

Hot-swap Redundant Power Supplies

QUINTECH®
The Source for RF Reliability

XTREME 32

32 Port Fan-Out RF Matrix Switch

Specifications and Operating Conditions

As Configured/Expandable to:	4x8 / 16x16		
RF Connectors:	BNC 50 Ω		
Operating Frequency:	850-2500 MHz		
	950-1450MHz	950-2150 MHz	850-2500 MHz
Frequency Response: Default Gain: typically Centered @ 0 dB	+/- .9625 dB	+/- 1.5 dB	+/- 2.5 dB
Any 36 MHz:	+/- .25 dB	+/- .5 dB	+/- .7 dB
Input P1dB:			
Default Gain:	3 dBm min		
Max Input Gain:	-10 dBm typical *		
Noise Figure:			
Default Gain:	16 dB max	16 dB max	17 dB max
Max Input Gain:	9 dB typical *	9 dB typical *	10 dB typical *
OIP3:			
Default Gain:	13 dBm min	13 dBm min	12 dBm min
Input Return Loss:	14 dB min	14 dB min	12 dB min
Output Return Loss:	14 dB min	14 dB min	12 dB min
Isolation:			
Input to Input:	60 dB min		
Output to Output:	60 dB min		
Input to Output:	50 dB min		
Input Gain Range:	-16.5 to 16 dB in .5 dB steps		
Output Gain Range:	-19.5 to 12 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)		

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 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