XTREME 32

32 Port Fan-Out Bi-directional RF Matrix Switch

QX11800P16X16CF4AA1000

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

The ***XTREME 32*** DOCSIS 3.1 compatible matrix switch is a full fan-out (distributive) non-blocking signa 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 ir a compact 1 RU chassis. Hot-Swappable redundant power supplies, I/O Modules, and a field replaceable cooling fan provide maximum reliability.

5-1800 MHz Operating Range	**Hot-swappable Input and Output Adapters**
Bidirectional configuration ideal for DOCSIS 3.1 testing	**Dual Gigabit Ethernet Ports**
Redundant Hot Swappable Power Supplies	**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 input levels and cable loss

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

F-type, BNC 50, BNC 75, SMA, 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
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Specifications and Operating Conditions

As Configured/Expandable to:	16x16		
RF Connectors:	F-type		
Operating Frequency:	5-1800 MHz		
	5-54 MHz	54-1218 MHz	1218-1800 MHz
Insertion Loss: Frequency Response:	**26** +/- 4 dB	**27.5** +/- 3 dB	**30** +/- 2.5 dB
Any 6 MHz Flatness:	+/- .5 dB	+/- .5 dB	+/- .5 dB
Input P1dB:			
	30dBm min		
Noise Figure:			
	Not Applicable (passive)		
OIP3:			
	40dBm min		
Input Return Loss:	7 dB min, >10 dB typical		
Output Return Loss:	7 dB min, >10 dB typical		
Isolation:			
Input to Input:	60 dB min		
Output to Output:	60 dB min		
Input to Output:	50 dB min		
Input Gain Range:	Not Available		
Output Gain Range:	Not Available		
RF Sensing Range:	Not Available		
AGC Tracking Range:	Not Available		
Switching Speed:	150 mS per crosspoint typical		
	<2 uS from break to make		
Maximum Input Power: (No Damage)	30 dBm (30 VDC max on any port)		
LNB Power: Each Port	Not Applicable		

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:
Not Applicable

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:	55 W typical
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), 12 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

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