

# XTREME 32-C

## 32 Port Fan-In L-Band RF Matrix Switch

QF12200V16X16CF3AA1000

16x16 F(f)

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

The **XTREME 32-C** L-Band matrix switch is a full fan-in (combining) non-blocking signal management solution that combines one or more inputs to an output. 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.

850-2450 MHz Operating Range

Flexible Matrix Configurations up to (16x16, 28x4, 24x8)

Redundant Hot Swappable Power Supplies

Field Replaceable Cooling Fan

Hot-swappable Input and Output Adapters

Adjustable Input and Output Gain

Dual Gigabit Ethernet Ports



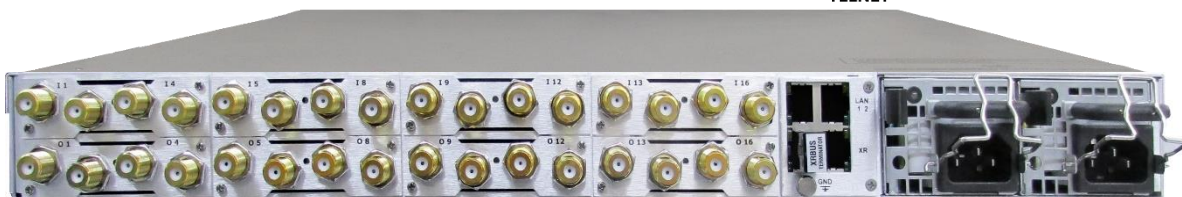
Convenient Local Control and Status Monitoring

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

# XTREME 32-C

## 32 Port Fan-In L-Band RF Matrix Switch

### Specifications and Operating Conditions

<b>As Configured/Expandable to:</b>	16x16 / Fully Populated	
<b>RF Connectors:</b>	F-type (f)	
<b>Operating Frequency:</b>	950-2150 MHz	850-2450MHz
<b>Frequency Response:</b>		
<b>Default Gain: typically Centered @ 0 dB</b>	+/- 2 dB	+/- 3dB
<b>Flatness over any 36MHz:</b>	+/- .5 dB	+/- .7 dB
<b>Input P1dB:</b>		
<b>Default Gain:</b>	0 dBm min	
<b>Max Input Gain:</b>	-15 dBm typical*	
<b>Max RF Output Power:</b>	>11 dBm	
<b>Noise Figure:</b>		
<b>Default Gain:</b>	13 dB max (26 dB Full Fan-In)	14 dB max (26 dB Full Fan-In)
<b>Max Input Gain:</b>	6 dB typical * (21 dB Full Fan-In)*	7 dB typical * (21 dB Full Fan-In)*
<b>OIP3:</b>		
<b>Default Gain:</b>	10 dBm min	8 dBm min
<b>Input Return Loss:</b>	14 dB min	14 dB min
<b>Output Return Loss:</b>	14 dB min	14 dB min
<b>Isolation:</b>		
<b>Input to Input:</b>	60 dB min	
<b>Output to Output:</b>	60 dB min	
<b>Input to Output:</b>	55 dB min	50 dB min
<b>Input Gain Range:</b>	-14.5 to 17 dB in .5 dB steps	
<b>Output Gain Range:</b>	-18.5 to 13 dB in .5 dB steps	
<b>RF Sensing Range:</b>	-50 to 0 dBm	
<b>Output AGC Tracking Range:</b>	-50 to -10 dBm setpoint	
<b>Switching Speed:</b>	150 mS per cross point 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>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
<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), 11.5 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



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