XTREME 32-C

32 Port Fan-In L-Band RF Matrix Switch

QF12200V16X16CS3AA1000

16x16 SMA(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.

- **950-2450 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

QUINTECH®
The Source for RF Reliability

ESATCOM INC

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Specifications and Operating Conditions

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

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:	100 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), 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

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