

# XTREME 32-C

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



XTREME 32-C

### General Description:

The **XTREME 32-C** next generation L-band matrix switch features 32 ports in a compact 1 RU chassis. The **XTREME 32-C** is a full fan-in (combining), non-blocking switch where one or more inputs can be routed to any output. The **XTREME 32-C** features an industry exclusive flexible matrix architecture that supports both symmetric and asymmetric configurations of 32 combined inputs and outputs in a single chassis. Asymmetric configurations such as 28x4, 24x8, and more can be implemented as well as the standard 16x16 configuration. The **XTREME 32-C** is designed for maximum reliability with redundant and hot-swappable power supplies.

### Features & Benefits:

- 50-200 MHz, 850-2500 MHz & 950-3500 MHz operating range
- Compact design with a variety of configurations adding to 32 ports in 1 RU
- Easy hot-swap power supplies, fan and adapters
- Independent input and output gain control
- Option for fiber optic inputs
- Remotely controlled via web browser GUI interface, SNMP, Telnet or TCP/IP via customer supplied PC
- Hot-swappable input and output adapters
- Flexible matrix configurations (16x16)
- Redundant hot swappable power supplies
- Dual gigabit ethernet ports
- Field replaceable cooling fan

Specifications: <sup>*1</sup>	L-Band		S-Band
<b>Configurations:</b>	4x28, 8x24, 12x20, 16x16, 20x12, 24x8, 28x4		16x16
<b>RF Connectors:</b>	F-Type, BNC 75 Ω or 50 Ω, SMA, Mixed or Optical Input Receivers SC/APC or LC/APC		SMA
<b>Impedance:</b>	75 Ω or 50 Ω		50 Ω
<b>Operating Frequency:</b>	850-2500 MHz	50-200 MHz & 950-2150 MHz	950-3500 MHz
<b>Frequency Response:</b>	+/- 2.0 dB +/- 0.5 dB Max. (Over any 36 MHz Channel)		+/- 3.0 dB +/- 0.7 dB Max. (Over any 36 MHz Channel)
<b>Input P1dB:</b>	0 dBm		
<b>Noise Figure:</b>	13 dB @ 0 dB Gain (One Connection)	13 dB Max. (22 dB Full Fan-In)	15 dB Max. (24 dB Full Fan-In)
<b>Default Gain:</b>	13 dB @ 0 dB Gain (One Connection)	13 dB Max. ( 22 dB Full Fan-In)	15 dB Max. (24 dB Full Fan-In)
<b>Max Input Gain:</b>		9 dB Typical* (21 dB Full Fan-In)	10 dB Typical* (23 dB Full Fan-In)
<b>OIP3:</b>	10 dBm Min.	10 dBm Min.	8 dBm Min.
<b>Input Return Loss:</b>	14 dB		
<b>Output Return Loss:</b>	14 dB		
<b>Isolation (input-to-input):</b>	60 dB	50 dB	45 dB
<b>Isolation (output-to-output):</b>	60 dB	50 dB	45 dB
<b>Isolation (input-to-output):</b>	55 dB	50 dB	45 dB
<b>Input Gain Range:</b>	-14.5 to 17 dB in 0.5 dB Steps	-19.5 to 12 dB in .5 dB steps	-19.5 to 12 dB in .5 dB steps
<b>Output Gain Range:</b>	-18.5 to 13.0 dB in 0.5 dB Steps	-20.5 to 11 dB in .5 dB steps	-20.5 to 11 dB in .5 dB steps
<b>Local Control:</b>	Front Panel 2.2" LCD Display with Rotary Switch Joystick		
<b>Remote Control:</b>	SNMP, TELNET, TCP/IP, Web Browser Interface Via Ethernet		
<b>Power Requirements:</b>	100-240 VAC Autoranging, 50/60 Hz		
<b>Power Consumption:</b>	100W Typical		
<b>Size:</b>	1 RU: 1.75"H x 19"W x 18.5 D"		

<sup>1</sup>Specifications valid at unity gain (Input gain = 0 dB , Output gain = 0 dB)

\*Specifications may vary with connector type. See individual specification sheet for specific performance data.