

# XTREME 32

## 32 Port Fan-Out Dual Band + S-Band RF Matrix Switch



XTREME 32

### General Description:

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.

### Features & Benefits:

- 50-200 MHz, 850-2500 MHz & 950-3500 MHz operating range
- Flexible matrix configurations (16x16, 4x28, 8x24)
- LNB power 400 mA per Input 13/18 V with 22 kHz tone
- Option for fiber optic inputs
- Adjustable input and output gain
- Redundant hot-swappable power supplies
- Hot-swappable input and output adapters
- 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>	50-200 MHz	950-2150 MHz	850-2500 MHz	950-3500 MHz
<b>Frequency Response:</b>	+/- 2.5 dB	+/- 1.5 dB	+/- 2.5 dB	+/- 2.0 dB
<b>Any 36 MHz:</b>	+/- 0.8 dB	+/- 0.5 dB	+/- 0.7 dB	+/- 0.5 dB Max.
<b>Input P1dB:</b>	0 dBm			
<b>Noise Figure:</b>				
<b>Default Gain:</b>	20 dBm Max.	13 dBm Max.	14 dBm Max.	14 dB max
<b>Max Input Gain:</b>				10 dB Typical*
<b>OIP3:</b>	9 dBm Min.	10 dBm Min.	9 dBm Min.	8 dBm Min.
<b>Input Return Loss:</b>	12 dBm Min.	14 dBm Min.	12 dBm Min.	14 dB
<b>Output Return Loss:</b>	12 dBm Min.	14 dBm Min.	12 dBm Min.	14 dB
<b>Isolation (input-to-input):</b>	60 dB			
<b>Isolation (output-to-output):</b>	60 dB			
<b>Isolation (input-to-output):</b>	55 dB			45 dB
<b>Input Gain Range:</b>	-19.5 to 12 dB in 0.5 dB Steps			
<b>Output Gain Range:</b>	-15.5 to 16 dB in 0.5 dB Steps			-20.5 to 11 dB in .5 dB steps
<b>LNB Power Each Port:</b>	0/13/18 V, 22 kHz			
	400 mA Nominal (550mA Peak In-rush)			
	Short Circuit Protection with Automatic Reset			
	Status: Under Current (<50mA), Short and Normal			
<b>Optical Wavelength:</b>	900-1650 nm			
<b>Optical Return Loss:</b>	14 dB			
<b>Optical Connectors:</b>	SC/APC, LC/APC			
<b>Remote Control:</b>	SNMP, TELNET, TCP/IP, Web Browser Interface Via Ethernet, Remote Panel			
<b>Power Requirements:</b>	100-240 VAC Autoranging, 50/60 Hz 5A Max.			
<b>Power Consumption:</b>	100W Typical, 200 W Max. with LNB Optional			
<b>Local Control:</b>	Front Panel 2.2" LCD Display with Rotary Switch Joystick			
<b>Size:</b>	1 RU: 1.75"H x 19"W x 18.5 D"			

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

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