

# XTREME 32

## Dual 8x8 Hybrid RF Matrix Switch

### General Description:

The **XTREME 32** Hybrid matrix switch is an L-band matrix switch that features a non-blocking 8x8 splitting matrix and a non-blocking 8x8 combining matrix with hot-swap I/O cards, redundant power supplies, and control module in a compact 1 RU chassis. Dual 10/100/1000 Ethernet ports allow for redundant control connections.



XTREME 32

### Features & Benefits:

- 850-2500 MHz operating range
- Redundant hot-swappable power supplies
- Hot-swappable input and output adapters
- Adjustable input and output gain
- Dual gigabit ethernet ports
- Field replaceable cooling fan
- Fan-out LNB power option on input adapters
- Option for fiber optic inputs

Specifications:	Full Fan-out		Full Fan-in	
<b>Configurations:</b>	8x8		8x8	
<b>RF Connectors:</b>	F-Type, BNC 75 Ω or 50 Ω, SMA, Mixed or Optical Input Receivers SC/APC or LC/APC			
<b>Impedance:</b>	75 Ω or 50 Ω		75 Ω or 50 Ω	
<b>Operating Frequency:</b>	950-2150 MHz	850-2500 MHz	950-2150 MHz	850-2500 MHz
<b>Frequency Response: Any 36 MHz:</b>	+/- 1.5 dB	+/- 3 dB	+/- 1.5 dB	+/- 2.5 dB
	+/- .5 dB	+/- .7 dB	+/- .5 dB	+/- .5 dB
<b>Input P1dB:</b>	0 dBm Min.		0 dBm Min.	
<b>Noise Figure:</b>	13 dB Max.	14 dB Max.	13 dB Max.	21 dB Max.
<b>OIP3:</b>	10 dBm Min.	10 dBm Min.	10 dBm Min.	10 dBm Min.
<b>Input Gain Range:</b>	-15.5 to 16 dB in 0.5 dB steps		-17.5 to 14 dB in 0.5 dB steps	
<b>Output Gain Range:</b>	-14.5 to 17 dB in 0.5 dB steps		-13.5 to 18 dB in 0.5 dB steps	
<b>Isolation (input-to-input):</b>	60 dB Min.	60 dB Min.	60 dB Min.	60 dB Min.
<b>Isolation (output-to-output):</b>	60 dB Min.	60 dB Min.	60 dB Min.	60 dB Min.
<b>Isolation (input-to-output):</b>	55 dB Min.	50 dB Min.	55 dB Min.	50 dB Min.
<b>Input Return Loss:</b>	14 dB Min.		14 dB Min.	
<b>Output Return Loss:</b>	14 dB Min.		14 dB Min.	
<b>Power Requirements:</b>	100-240 VAC Autoranging, 50/60 Hz			
<b>Power Consumption:</b>	110 W typical			
<b>Local Control:</b>	Front panel 2.2" display and rotary knob			
<b>Remote Control:</b>	SNMP, Web Browser Interface Via Ethernet Remote Panel			

<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.