

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, 50-1000 MHz, 850-2500 MHz & 950-3500 MHz operating range
- Flexible matrix configurations (16x16, 4x28, 8x24)
- LNB power 750 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: ^{*1}	L-Band				S-Band
Configurations:	4x28, 8x24, 12x20, 16x16, 20x12, 24x8, 28x4				16x16
RF Connectors:	F-Type, BNC 75 Ω or 50 Ω, SMA, Mixed or Optical Input Receivers SC/APC or LC/APC				SMA
Impedance:	75 Ω or 50 Ω				50 Ω
Operating Frequency:	50-200 MHz	50-1000 MHz	950-2150 MHz	850-2500 MHz	950-3500 MHz
Frequency Response:	+/- 2.5 dB	+/- 3 dB	+/- 1.5 dB	+/- 2.5 dB	+/- 2.0 dB
Any 36 MHz:	+/- 0.8 dB	+/- 0.8 dB	+/- 0.5 dB	+/- 0.7 dB	+/- 0.5 dB Max.
Input P1dB:	0 dBm				
Noise Figure:					
Default Gain:	20 dBm Max.	14 dBm Max.	13 dBm Max.	14 dBm Max.	14 dB max
Max Input Gain:					10 dB Typical*
OIP3:	9 dBm Min.	9 dBm Min.	10 dBm Min.	9 dBm Min.	8 dBm Min.
Input Return Loss:	12 dBm Min.	14 dBm Min.	14 dBm Min.	12 dBm Min.	14 dB
Output Return Loss:	12 dBm Min.	14 dBm Min.	14 dBm Min.	12 dBm Min.	14 dB
Isolation (input-to-input):	60 dB				
Isolation (output-to-output):	60 dB				
Isolation (input-to-output):	55 dB				45 dB
Input Gain Range:	-19.5 to 12 dB in 0.5 dB Steps				
Output Gain Range:	-15.5 to 16 dB in 0.5 dB Steps				-20.5 to 11 dB in .5 dB steps
LNB Power Each Port:	0/13/18 V, 22 kHz				
	250 W available, Individual ports limited to 750 mA				
	Short Circuit Protection with Automatic Reset				
	Status: Under Current (<50 mA), Short and Normal				
Optical Wavelength:	900-1650 nm				
Optical Return Loss:	14 dB				
Optical Connectors:	SC/APC, LC/APC				
Remote Control:	SNMP, TELNET, TCP/IP, Web Browser Interface Via Ethernet				
Power Requirements:	100-240 VAC Autoranging, 50/60 Hz 5A Max.				
Power Consumption:	100W Typical, 200 W Max. with LNB Optional				
Local Control:	Front Panel 2.2" LCD Display with Rotary Switch Joystick				
Size:	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.

¹Specifications valid at unity gain (Input gain = 0 dB, Output gain = 0 dB)