

XTREME 32

32 Port Fan-Out Dual 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 Operating Range
- Flexible Matrix Configurations (16x16, 4x28, 8x24)
- LNB Power 400 mA per Input 13/18 V with 22 kHz Tone
- Fiber Optic Receivers
- Adjustable Input and Output Gain
- Redundant Hot-swappable Power Supplies
- Hot-swappable Input and Output Adapters
- Field Replaceable Cooling Fan

Specifications: ^{*1}	XTREME 32		
Operating Frequency:	50-200 MHz	950-2150 MHz	850-2500 MHz
Configurations:	8x24, 16x16		
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		
Impedance:	75 Ω or 50 Ω		
Input P1dB:	Default Gain: 0 dBm		
OIP3:	9 dBm Min.	10 dBm Min.	9 dBm Min.
Frequency Response:	+/- 2.5 dB	+/- 1.5 dB	+/- 2.5 dB
Any 36 MHz:	+/- 0.8 dB	+/- 0.5 dB	+/- 0.7 dB
Isolation (input-to-input):	60 dB		
Isolation (output-to-output):	60 dB		
Isolation (input-to-output):	55 dB		
Input Return Loss:	12 dBm Min.	14 dBm Min.	12 dBm Min.
Output Return Loss:	12 dBm Min.	14 dBm Min.	12 dBm Min.
Noise Figure:	20 dBm Max.	13 dBm Max.	14 dBm Max.
RF Connectors:	F-Type, BNC 75 Ω or 50 Ω, SMA, or Mixed		
LNB Power Each Port:	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		
Optical Wavelength:	900-1650 nm		
Optical Return Loss:	14 dB		
Optical Connectors:	SC/APC, LC/APC		
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		
Remote Control:	SNMP, TELNET, TCP/IP, Web Browser Interface Via Ethernet, Remote Panel		
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)