

XTREME 80

80 Port Fan-Out L-Band RF Matrix Switch



XTREME 80

General Description:

The **XTREME 80** next generation L-band matrix switch features 80 ports in a compact 2 RU chassis. The **XTREME 80** is a full fan-out (distributive), non-blocking switch where an input can be routed to any or all outputs. The **XTREME 80** features an industry exclusive flexible matrix architecture (patented) that supports both symmetric and asymmetric configurations of 80 combined inputs and outputs in a single chassis. Asymmetric configurations such as 16x64, 24x40, and more can be implemented as well as the standard 32x32 configuration. Optional 13/18V, 22 kHz tone LNB power is available on all input ports. The **XTREME 80** is designed for maximum reliability with redundant power and control cards.

Features & Benefits:

- 50-200 MHz and 950-2200 MHz frequency range
- Compact modular design up to 80 ports in 2 RU chassis
- Asymmetrical configurations up to (32x32, 16x64, 24x40) in a single chassis
- LNB power 400 MA per input 13/18 V with 22 KHz tone
- Fiber optic receivers
- Adjustable gain and attenuation on all inputs and outputs allows the user to adjust the RF level for optimum performance
- Fast and easy hot-swap (less than 30 seconds) of any active cards

Specifications: ^{*1}	XTREME 80
Operating Frequency:	50-200 MHz - 950-2200 MHz
Configurations:	Symmetric 32 Inputs/32 Outputs, Asymmetric 16 Inputs/64 Outputs
Input Gain Range:	-19.5 dB to +12 dB (32x32); -24 to +8 dB for (16x64)
Output Gain Range:	-15.5 dB to +16 dB, All Builds
Impedance:	75 Ω or 50 Ω
Input P1dB:	0 dBm
OIP3:	+10 dBm
Frequency Response:	+/-1.5 dB +/-0.5 dB Over Any 36 MHz Channel
Isolation (input-to-input):	60 dB
Isolation (output-to-output):	60 dB
Isolation (input-to-output):	55 dB
Input Return Loss:	14 dB
Output Return Loss:	14 dB
Noise Figure:	13 dB @ 0 dB Gain
RF Connectors:	F-Type, BNC 75 Ω or 50 Ω, SMA, or Mixed
LNB Power Each Port:	0/13/18 V, 22 kHz Tone 400 mA 180 W of Total System Power Available to LNB
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
Power Consumption:	165 W Typical, 345 W with LNB Option (32x32), 255 W with LNB Option (16x64)
Local Control:	Front Panel 2.2" Display and Rotary Switch Joystick
Remote Control:	SNMP, TELNET, TCP/IP, Web Browser Interface Via Ethernet, Remote Panel
Size:	2 Ru: 3.5"H x 19"W x 23.25 D"

¹Specifications 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.

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