

# 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: <sup>*1</sup>	XTREME 80
<b>Operating Frequency:</b>	50-200 MHz - 950-2200 MHz
<b>Configurations:</b>	Symmetric 32 Inputs/32 Outputs, Asymmetric 16 Inputs/64 Outputs
<b>Input Gain Range:</b>	-19.5 dB to +12 dB (32x32); -24 to +8 dB for (16x64)
<b>Output Gain Range:</b>	-15.5 dB to +16 dB, All Builds
<b>Impedance:</b>	75 Ω or 50 Ω
<b>Input P1dB:</b>	0 dBm
<b>OIP3:</b>	+10 dBm
<b>Frequency Response:</b>	+/-1.5 dB +/-0.5 dB Over Any 36 MHz Channel
<b>Isolation (input-to-input):</b>	60 dB
<b>Isolation (output-to-output):</b>	60 dB
<b>Isolation (input-to-output):</b>	55 dB
<b>Input Return Loss:</b>	14 dB
<b>Output Return Loss:</b>	14 dB
<b>Noise Figure:</b>	13 dB @ 0 dB Gain
<b>RF Connectors:</b>	F-Type, BNC 75 Ω or 50 Ω, SMA, or Mixed
<b>LNB Power Each Port:</b>	0/13/18 V, 22 kHz Tone 400 mA 180 W of Total System Power Available to LNB
<b>Optical Wavelength:</b>	900-1650 nm
<b>Optical Return Loss:</b>	14 dB
<b>Optical Connectors:</b>	SC/APC, LC/APC
<b>Power Requirements:</b>	100-240 VAC Autoranging, 50/60 Hz
<b>Power Consumption:</b>	165 W Typical, 345 W with LNB Option (32x32), 255 W with LNB Option (16x64)
<b>Local Control:</b>	Front Panel 2.2" Display and Rotary Switch Joystick
<b>Remote Control:</b>	SNMP, TELNET, TCP/IP, Web Browser Interface Via Ethernet, Remote Panel
<b>Size:</b>	2 RU: 3.5"H x 19"W x 23.25 D"

<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.