

# XTREME 160

## 160 Port Fan-Out L-Band RF Matrix Switch



### General Description:

The **XTREME 160** next generation L-band matrix switch features up to 160 ports in a compact 4 RU chassis. The **XTREME 160** is a full fan-out (distributive), non-blocking switch where an input can be routed to any or all outputs. The **XTREME 160** features an industry exclusive flexible matrix architecture (patented) that supports both symmetric and asymmetric configurations of 160 combined inputs and outputs in a single chassis. Asymmetric configurations such as 32x128, 48x80, and more can be implemented as well as the standard 64x64 configuration. Optional 13/18V, 22 kHz tone LNB power is available on all input ports. The **XTREME 160** is designed for maximum reliability with redundant power and control cards.

### XTREME 160

### Features & Benefits:

- 50-200 MHz and 850-2450 MHz
- Compact modular design up to 160 ports in 4 RU chassis
- Asymmetrical configurations up to (48x80, 32x128, 64x96) in a single chassis
- LNB power 750 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 160
<b>Configurations:</b>	64x64, 48x80, 80x48, 32x128, 128x32
<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
<b>Operating Frequency:</b>	50-200 MHz & 850-2450 MHz
<b>Frequency Response:</b>	+/-1.5 dB (950-2150 MHz), +/-2.0 dB (850-2450 MHz) +/-0.5 dB Over Any 36 MHz Channel
<b>Input P1dB:</b>	0 dBm
<b>Noise Figure:</b>	14 dB
<b>OIP3:</b>	+10 dBm
<b>Input Return Loss:</b>	14 dB
<b>Output Return Loss:</b>	14 dB
<b>Isolation (input-to-input):</b>	60 dB
<b>Isolation (output-to-output):</b>	60 dB
<b>Isolation (input-to-output):</b>	55 dB (950-2150 MHz), 50 dB (850-2450 MHz)
<b>Input Gain Range:</b>	-23.5 to +8 dB in .5 dB Steps
<b>Output Gain Range:</b>	-23.5 to +8 dB in .5 dB Steps
<b>LNB Power Each Port:</b>	0/13/18 V, 22 kHz Tone Individual ports limited to 750 mA 700 W 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>Local Control:</b>	8.4" Touchscreen Display
<b>Remote Control:</b>	SNMP, TELNET, TCP/IP, Web Browser Interface Via Ethernet
<b>Power Requirements:</b>	100-240 VAC Autoranging, 50/60 Hz
<b>Power Consumption:</b>	165 W Typical
<b>Size:</b>	4 RU: 7"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 and size configuration. See individual specification sheet for specific performance data.