

# 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
Configurations:	64x64, 48x80, 80x48, 32x128, 128x32
RF Connectors:	F-Type, BNC 75 Ω or 50 Ω, SMA, Mixed or Optical Input Receivers SC/APC or LC/APC
Impedance:	75 Ω or 50 Ω
Operating Frequency:	50-200 MHz & 850-2450 MHz
Frequency Response:	+/-1.5 dB (950-2150 MHz), +/-2.0 dB (850-2450 MHz) +/-0.5 dB Over Any 36 MHz Channel
Input P1dB:	0 dBm
Noise Figure:	14 dB
OIP3:	+10 dBm
Input Return Loss:	14 dB
Output Return Loss:	14 dB
Isolation (input-to-input):	60 dB
Isolation (output-to-output):	60 dB
Isolation (input-to-output):	55 dB (950-2150 MHz), 50 dB (850-2450 MHz)
Input Gain Range:	-23.5 to +8 dB in .5 dB Steps
Output Gain Range:	-23.5 to +8 dB in .5 dB Steps
LNB Power Each Port:	0/13/18 V, 22 kHz Tone Individual ports limited to 750 mA 700 W Total System Power Available to LNB
Optical Wavelength:	900-1650 nm
Optical Return Loss:	14 dB
Optical Connectors:	SC/APC, LC/APC
Local Control:	8.4" Touchscreen Display
Remote Control:	SNMP, TELNET, TCP/IP, Web Browser Interface Via Ethernet
Power Requirements:	100-240 VAC Autoranging, 50/60 Hz
Power Consumption:	165 W Typical
Size:	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.

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