


XTREME 160 - 160 Port Fan-Out RF Matrix Switch (quintechelectronics.com)

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

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.

## 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 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 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)<br>+/-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 |
| | 400 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:** | Front Panel 2.2" Display and Rotary Switch Joystick |
| **Remote Control:** | SNMP, TELNET, TCP/IP, Web Browser Interface Via Ethernet, Remote Panel |
| **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" |

[1]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.