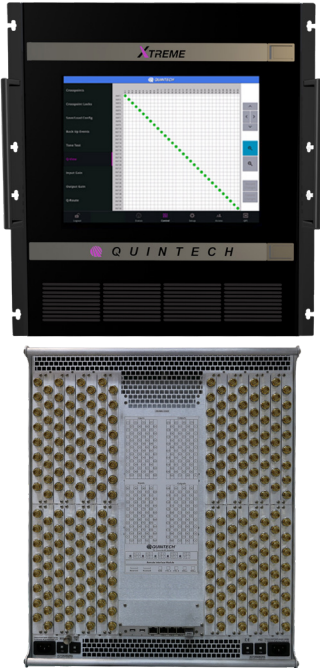


# XTREME 256

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



XTREME 256

### General Description:

The **XTREME 256** next generation L-band matrix switch features 256 ports in a compact 12 RU chassis. The **XTREME 256** is a full fan-out (distributive), non-blocking switch where an input can be routed to any or all outputs. The **XTREME 256** features an industry exclusive flexible matrix architecture (patented) that supports both symmetric and asymmetric configurations of 256 combined inputs and outputs in a single chassis. Asymmetric configurations such as 64x192, 96x160, and more can be implemented as well as the standard 128x128 configuration. It is designed for maximum reliability with redundant and hot-swappable power supplies, fans trays, and control cards plus RF redundancy. It is also designed for ease of maintenance with built-in self-test (BIST) capability and the ability to hot-swap all active components from the front of the unit. The **XTREME 256** is highly scalable and can easily be expanded up to 2048x2048 using multiple **XTREME 256** modules. Optional integrated expansion ports allow for large systems without using external expansion modules, significantly reducing system size and number of cables.

### Features & Benefits:

- Compact modular design, 256 ports in 12 RU, easily expandable to 2048x2048
- Asymmetrical configurations up to 248 outputs in a single chassis
- Adjustable gain on inputs and outputs to allow RF performance optimization
- Option for fiber optic inputs
- Easy hot-swap of all active cards, power supplies, and fan trays from the front
- Redundant hot-swap control cards plus independent GUI control system
- Remotely controlled via web browser GUI interface, SNMP, TELNET or TCP/IP via customer supplied PC

| Specifications:*1             | XTREME 256  |
|-------------------------------|---|
| Configuration:                | 128 Inputs/128 Outputs  |
| 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:          | 850-2450 MHz  |
| Frequency Response:           | ± 1 dB Typ. ± 2 dB Max.<br>± .2 dB Typ. ± .5 dB Max. Over Any 40 MHz Channel                        |
| Input P1dB:                   | 0 dBm   |
| Noise Figure:                 | <20 dB @ 0 dB Input Gain  |
| OIP3:                         | +10 dBm Min.  |
| Input Return Loss:            | 14 dB Typ. 12 dB Min.   |
| Output Return Loss:           | 16 dB Typ. 12 dB Min.   |
| Isolation (input-to-input):   | 75 dB Typ. 65 dB Min.   |
| Isolation (output-to-output): | 75 dB Typ. 65 dB Min.   |
| Isolation (input-to-output):  | 65 dB Typ. 55 dB Min.   |
| Input Gain Range:             | -17 dB to +13.5 dB in 0.5 dB Steps  |
| Output Gain Range:            | -14.5 dB to +33 dB in 0.5 dB Steps  |
| RF Sensing:                   | -5 dBm to -50 dBm   |
| Group Delay:                  | 5 ns Max.   |
| Switching Time:               | 125 ms  |
| Local Control:                | 15" Front Panel Touchscreen   |
| Remote Control:               | SNMP, TELNET, TCP/IP; Web Browser Interface Via Ethernet, Remote Panel                              |
| Power Requirements:           | 100-250 VAC Autoranging, 50/60 Hz   |
| Power Consumption:            | 525 W @ 120 VAC 650 W @ 240 VAC   |
| Size:                         | 12 RU Total Rack Space Required, 21" H x 19" W x 20.5" D to Rear Panel (22" Including Rear Handles) |
| Weight:                       | 150 lbs   |