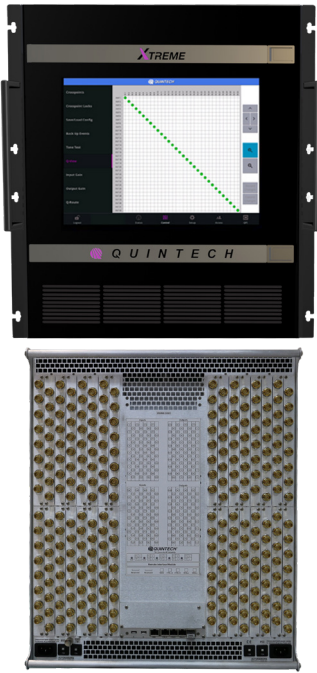


# XTREME 256-C

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



XTREME 256-C

### General Description:

The **XTREME 256-C** next generation L-band matrix switch features 256 ports in a compact 12 RU chassis. The **XTREME 256-C** is a full fan-in (combining), non-blocking switch where one or multiple inputs can be routed to an output. The **XTREME 256-C** 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 192x64, 160x96, and more can be implemented as well as the standard 128x128 configuration. It is designed for maximum reliability with redundant power, 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-C** is highly scalable and can easily be expanded up to 2048x2048 using multiple **XTREME 256-C** 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 inputs in a single chassis
- Adjustable gain on inputs allow RF performance optimization
- Option for fiber optic inputs
- Touchscreen local control and embedded web GUI interface
- 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: <sup>*1</sup>	XTREME 256-C
<b>Configuration:</b>	128 Inputs/128 Outputs
<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>	850-2450 MHz
<b>Frequency Response:</b>	± 3 dB ± .75 dB Over Any 36 MHz Channel
<b>Input P1dB:</b>	+6 dBm
<b>Noise Figure:</b>	<23 dB @ 0 dB Gain
<b>OIP3:</b>	+15 dBm
<b>Input Return Loss:</b>	14 dB Typ. 12 dB Min.
<b>Output Return Loss:</b>	15 dB Typ. 12 dB Min.
<b>Isolation (input-to-input):</b>	75 dB Typ. 65 dB Min.
<b>Isolation (output-to-output):</b>	75 dB Typ. 65 dB Min.
<b>Isolation (input-to-output):</b>	60 dB Typ. 55 dB Min.
<b>Input Gain Range:</b>	-17.5 dB to +14 dB in 0.5 dB Steps
<b>RF Sensing:</b>	+10 dBm to -50 dBm
<b>Output P1dB:</b>	+14 dBm
<b>Local Control:</b>	15" Front Panel Touchscreen
<b>Remote Control:</b>	SNMP, TELNET, TCP/IP; Web Browser Interface Via Ethernet, Remote Panel
<b>Inter-Module Control Data:</b>	XR Bus
<b>Power Requirements:</b>	100-250 VAC Autoranging, 50/60 Hz
<b>Power Consumption:</b>	525 W @ 120 VAC 650 W @ 240 VAC
<b>Size:</b>	12 RU Total Rack Space Required, 21" H x 19" W x 20.5" D to Rear Panel 22" (Including Rear Handles)
<b>Weight:</b>	150 lbs

<sup>\*1</sup>Specifications may vary with connector type. See individual specification sheet for specific performance data. <sup>1</sup>Specifications valid at unity gain (Input gain = 0 dB , Output gain = 0 dB)