

QXM XTREME 256

256 x256 RF Matrix Switch



General Description:

The XTREME 256 next generation L-band matrix switch features 128x128 connections in a compact 12 RU chassis. The XTREME 256 is a full fan-out, non-blocking L-band RF Matrix Switch where any input can be routed to any or all outputs. The XTREME 256 features a flexible matrix architecture (patent pending) that supports multiple single chassis configurations of 64x192, 96x160, 128x128 and more. The XTREME 256 is highly scalable and can easily be expanded up to a system size of 2048x2048 using multiple XTREME 256 modules. Optional integrated expansion ports allow for XTREME 256 systems from 16x496 to 256x256 without using external expansion modules, significantly reducing the system size and number of cables.

Features & Benefits:

- 850-2150 MHz frequency range
- Compact modular design – 128x128 in 12U, easily expandable to 2048 x 2048
- Can be configured for up to 248 outputs in a single chassis
- Adjustable gain and attenuation on all inputs allows the user to adjust the input signal level for optimum performance
- Touch Screen Interface & Embedded Web GUI Interface
- Fast and easy hot-swap (less than 30 seconds) of all active cards
- 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.
- PC compatible operating software and protocol included.

*Specifications:	QXM 2150
Operating Frequency:	850-2150 MHz
Gain Range (manual mode):	-12 dB to +20 dB in 0.5 dB steps
Impedance:	75 Ω
P1dB:	7.5 dBm
OIP3	+15 dBm
RF Output Power:	+10 dBm
RF Sensing:	+10 dBm to -50 dBm
Frequency Response:	+ 2.75 dB + .75 dB over any 36 MHz channel
Isolation (input-to-input):	65 dB min
Isolation (output-to-output):	70 dB min.
Isolation (input-to-output):	55 dB min.
Input Return Loss:	12 dB
Output Return Loss:	12 dB
Noise Figure:	<27 dB @ 0dB gain
Configuration:	128 inputs / 128 outputs
RF Connectors:	BNC 75 Ω
Power Requirements:	87-265 VAC autoranging, 47-63 Hz
Power Consumption:	500W (128X128 Configuration)
Local Control:	15" Front panel touchscreen
Remote Control:	SNMP, TELNET, TCP/IP; Web browser interface via Ethernet remote panel
Inter-Module Control Data:	XR Bus
Mechanical:	12 RU total rack space required
Weight:	150 lbs.



*Specifications may vary with connector type. See data sheet for specific performance data.