

XTREME 256

256 Port Fan-Out RF Matrix Switch

QXM2150M128X128CS1AA12000
128X128 SMA(f) 50Ω Controller

Exclusive Flexible Matrix Architecture, Industry Leading Specifications, and Hot-Swappable Components Provide an XTREME Signal Management Solution

The **XTREME 256** L-band matrix switch is a full fan-out (distributive) non-blocking signal management solution that routes an input to any or all outputs. The design features an industry exclusive flexible architecture that supports both symmetric and asymmetric configurations of up to 256 combined inputs and outputs in a compact 12 RU chassis. Hot-Swappable Input, Bridge, and Output RF Cards, I/O Modules, redundant power supplies, and cooling fans provide maximum reliability.

950-2150 MHz Operating Range

Flexible Matrix Configurations including
(64x192, 96x160, and 128x128)

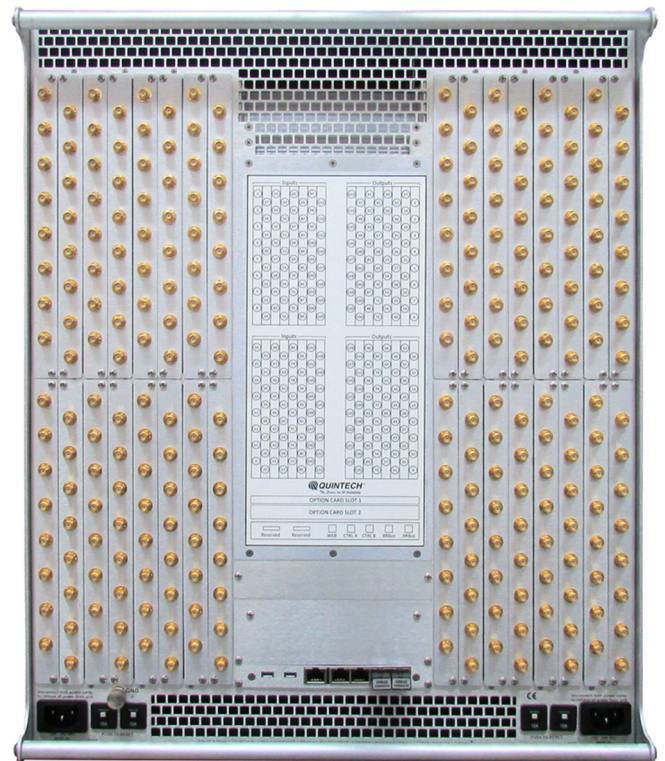
Optional integrated expansion allows from 16x496 to 256x256
without external expansion modules

Redundant Hot Swappable Power Supplies

All active cards are Hot-swappable in less than a minute

Adjustable Input and Output Gain

Hot Swappable Cooling Fans



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Specifications and Operating Conditions

QXM2150M128X128CS1AA12000	
As Configured:	128x128 Fully Populated
RF Connectors:	SMA, 50Ω
Optical Connectors:	N/A
Operating Frequency:	950-2150 MHz
Frequency Response: Default Gain: typically Centered @ 0 dB	≤ ±1 dB typ., ±1.5 dB max.
Any 40 MHz:	±0.2 dB typ., ±0.5 dB max.
Input P1dB:	
Default Gain:	0 dBm
Noise Figure:	
Default Gain:	≤18 dB max
OIP3:	
Default Gain:	8 dBm min
Input Return Loss:	12 dB min
Output Return Loss:	12 dB min
Isolation:	
Input to Input:	65 dB min
Output to Output:	65 dB min
Input to Output ² :	55 dB min
Input Gain Range:	-17 to +13.5 dB in .5 dB steps
Output Gain Range:	-14.5x to +33 dB in .5 dB steps
RF Sensing Range:	-5 to -50 dBm
AGC Tracking Range:	-40 to -10 dBm setpoint
Switching Speed:	150 mS per crosspoint typical * <5 uS from break to make
Maximum Input Power: (No Damage)	20 dBm (30 VDC max on any port)
Group Delay Variation:	5nS
Optical Input Specifications:	N/A
Spectrum Analyzer Option:	N/A

* typical refers to expected product performance that is useful in application of the product but is not covered by the product warranty

¹ Specifications valid at unity in (Input Gain = 0, Output Gain = 0) for RF inputs.



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Control:	
Front Panel/Web Server, Dual Redundant QPE CPU Cards	
Local Control:	
15" Front Panel Touchscreen	
Remote Control:	
10/100/1000 BaseTx Ethernet Ports to Web Server Controller	
Independent 10/100 BaseTx Ethernet Ports to each QPE Controller	
SNMP	V2c, v3
TCP/IP	Quintech 2.15 Protocol (Port 9100)
Web Server	
Secure Web Server with Custom SSL Certificate	
TELNET with option to disable	
Macro Scripting Language to Automate Changes and Monitoring	
XR Bus Expansion Standard	
Optional Ethernet Expansion	
NTP Time Client	
Alarms and Logging:	
SNMP Traps on Status Change	
SNMP Trap on Crosspoint Change	
SysLog, SQL, or CSV Format Log File	
Q-Sense:	
Primary and Backup Input Pairs: Backup is automatically switched if the Primary Input falls below the threshold level.	

Power and Cooling Requirements:	
AC Input Range:	100-240 VAC Autoranging 50/60 Hz 5A
Hot-Swappable Redundant Supplies with Separate AC Inlets	
Power Consumption:	575W/675W @ 120/240 VAC
Fans:	Long-life fan (3 hot swappable trays)
Input, Bridge and Output RF Modules:	Hot Swappable

Physical:	
Dimensions:	12 RU (21" H x 19" W x 20.5" D) 22" including rear handles
Weight:	235 lbs. gross (crated and palletized) 150 lbs. net
Certifications:	CE, TUV NRTL, FCC Part 15

Environmental Parameters:	
Operating Temperature:	0 to 50° C
Storage Temperature:	-10° C to 70° C
Humidity:	up to 95% non-condensing
Altitude:	10,000 feet AMSL

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV
ISO 9001