QRM 2500 Series
Modular Hot-Swap Matrix Switching System

QUALITY MANAGEMENT SYSTEM CERTIFIED BY DNV ISO 9001:2000

General Description:

Quintech's QRM 2500 Matrix Switching System provides a complete 16x16 switching solution in a 1 RU chassis. The QRM provides maximum reliability through the use of signal path redundancy and auto re-route capability. It can be used to create a wide variety of configurations ranging from 8x8 up to 32x32. The system can be controlled either locally via the front panel keypad or remotely via computer and is compatible with most monitoring and control systems.

Specifications:

	L-Band	IF
Operating Frequency:	950-2150 MHz	50-200 MHz
Gain Range (manual mode):	-15 dB to +16 dB in 0.5 dB steps	-15 dB to +16 dB in 0.5 dB steps
Impedance:	75 Ω or 50 Ω	75 Ω or 50 Ω
P1dB:	+2 dBm	-3 dBm
OIP^3	10 dBm	8 dBm
RF Input Power:	-10 dB to -70 dB	-10 dB to -70 dB
RF Output Power:	-10 dBm	-10 dBm
Output AGC Level:	-10 dBm to -50 dBm	-10 dBm to -50 dBm
Frequency Response:	± 1.5 dB ± 0.4 dB over any 36 MHz channel	± 2 dB ± 0.6 dB over any 36 MHz channel
Isolation (input-to-input):	70 dB	70 dB
Isolation (output-to-output):	60 dB	60 dB
Isolation (input-to-output):	60 dB typ.	60 dB typ.
Input Return Loss:	14 dB	14 dB
Output Return Loss:	14 dB	14 dB
Noise Figure:	<18 dB @ 0 dB <9.5 dB @ 16 dB	<18dB @ 0 dB <9.5 dB @ 16 dB

Configuration:	8x8 up to 32x32
RF Connectors:	Type F 75 Ω, BNC 75 Ω, BNC 50 Ω, or SMA 50 Ω
Power Requirements:	100-240 VAC autoranging, 50/60 Hz
Power Consumption:	70 W
Local Control:	Front panel keypad with LCD display
Inter-Module Control:	XR Bus
PC Remote Control:	RS-232, RS-485, SNMP, TELNET or Ethernet via customer-supplied PC
Software:	Basic PC-compatible operating software and system protocol included with system
Mechanical:	1 RU
Weight:	12 lbs.

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