

MRM 1000 SERIES

RF Matrix Switching System (20-1000 MHz)

General Description:

The **MRM 1000** is a matrix switch and switching subsystem that allows any of 4 to 128 inputs** carrying RF signals to be routed to any of 4 to 128 outputs. The system utilizes patented stack-and-tier technology which offers ultra-reliable, high-performance, in a compact, modular design. This greatly reduces the size and complexity of the system while greatly enhancing the system's reliability by eliminating the need for patch panels and repetitive mechanical connections. The system is controllable either locally via the front panel keypad or remotely via computer and is compatible with most monitoring and control systems. The rear panel design facilitates structured cable routing, thereby eliminating confusing tangles and bundles of cables.

Specifications:

Frequency:	20-1000 MHz*
Impedance:	50 Ω
Max. Survivable Input Power:	+30 dBm
Gain:	5 \pm 2 dB
1 dB Compression Input:	+15 dBm
3rd/2nd Order Output Intercept Point:	\geq +30 dBm / +55 dBm
Isolation (input-to-input):	\geq 65 dB
Isolation (output-to-output, different input):	\geq 65 dB
Isolation (output-to-output, common input):	\geq 35 dB
Isolation (input-to-output):	\geq 55 dB
Input Return Loss:	\leq 9.55 dB
Output Return Loss:	\leq 9.55 dB
Noise Figure:	\leq 14 dB, 12.5 dB typical
RF Connectors:	N, 50 Ω at system inputs & outputs BNC, 50 Ω between chassis
Power Requirements:	Autoranging 100-240 VAC, 50/60 Hz Three 1RU power supply chassis, each with N+1 hot-swappable power cassettes for redundancy
Power Consumption:	3900 W distributed across 9 AC inlets (16x64 configuration)
Local Control:	Front panel keypad with LCD display
PC Control:	RS-232, RS-422/485, GPIB, TELNET, Ethernet, or SNMP via customer-supplied PC
Software:	IBM-compatible operating software and system protocol included with system
Mechanical:	28 RU (refer to the rack diagram in the MRM 1000 Operating Manual)

* Also operates between 5-20 MHz, but with reduced performance levels for noise figure and gain.

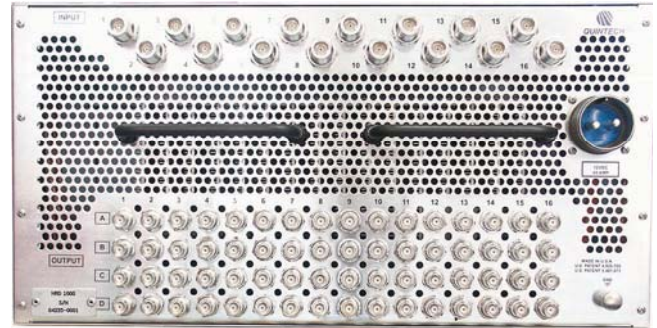
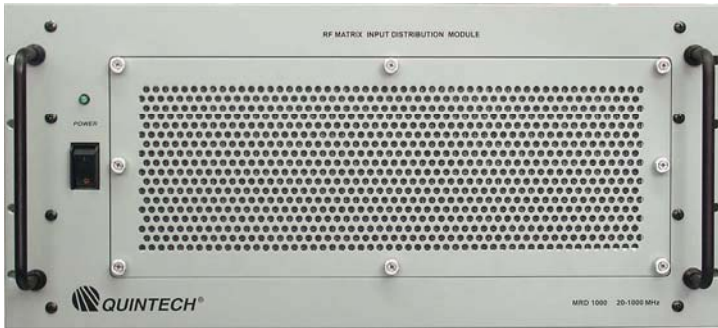
** Systems with more than 16 inputs or with 16 or fewer outputs can be supplied, but with slightly different specs.



UCM 1 RU (1.75" H x 17" W x 20" D) 5 lbs.



MRD 5 RU (8.75" H x 17" W x 24" D) 56 lbs.



MRM 3RU (5.25" H x 17" W x 24" D) 55 lbs.

