SRM 1000 SERIES

Modular RF Matrix Switching System (5-1000 MHz)

General Description:

The **SRM 1000** is a matrix switch and switching subsystem that allows any of 16 to 256 inputs carrying RF signals to be routed to any of 16 to 256 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:	5-1000 MHz
Impedance:	75 Ω
P1dB:	+6 dBm
Insertion Loss:	0 ± 2 dB
Frequency Response:	±3 dB
Isolation (input-to-input):	>45 dB
Isolation (output-to-output):	>50 dB
Isolation (input-to-output):	>50 dB
Return Loss:	>10 dB
Control Response Time:	1.26 msec.
Noise Figure:	13 dB
Switching Speed:	40 nsec.
RF Connectors:	Type "F", 75 Ω (BNC, SMA, or N optional)
Power Requirements:	100-240 VAC, 50/60 Hz. Dual AC inputs and dual internal PSUs for redundancy.
Power Consumption:	Controller-UCM 10W Input Distribution Module-SRD 45W Matrix Switch Module-SRM 130W Output Switch Module-SRO 45W
Local Control:	Front panel keypad with LCD display
PC Remote Control:	RS-232, RS-422/485, or ETHERNET via customer-supplied PC
Inter-Module Control Data:	Synchronous serial
Mechanical:	3 RU (5.25" H x 19" W x 20" D)
Software:	Basic IBM-compatible operating software and system protocol included with system
Available Sizes:	Any configuration up to and including 256 x 256 outputs