SRM SERIES

Modular Full Fan-out (Splitting), Non-blocking

The SRM Series RF matrix routers allow any of 16 to 128 inputs carrying RF signals to be routed to any of 16 to 128 outputs. The systems utilize patented stack-and-tier technology which offer ultra-reliability and high-performance in a compact, modular design. this greatly reduces the size and complexity of the systems while greatly enhancing reliability by eliminating the need for patch panels and repetitive mechanical connections. The systems are controllable either locally via the front panel keypad or remotely via computer and are compatible with monitoring and control systems.

FEATURES:

- Operating frequency ranges for Broadband IF (5-1000 MHz), Intermediate Frequency (5-200 MHz) & Satellite L-band (950-2150 MHz
- Modular designs allows for easy system installation and expansion
- Controllable locally via front panel keypad or remotely via computer and are compatible with most monitoring and control systems, freeing up staff to attend to more critical tasks
- Permit immediate routing of alternate signal sources
- Solid-state switches provide seamless (nanoseconds) switching speeds
- Maximize use of existing equipment with automated switching and scheduling; no need for duplicate equipment
- The rear panel design facilitates structured cable routing, eliminating confusing tangles of cable

SRM 200 Series Modular RF Matrix Switching System Specifications

	70 MHz	140 MHz	200 MHz
Frequency:	70 ± 20 MHz	140 ± 40 MHz	5-200 MHz
Insertion Loss:	0 ± 0.5 dB	0 ± 0.5 dB	0 ± 1.5 dB
Impedance:	75 Ω (50 Ω opt.)	75 Ω (50 Ω opt.)	75 Ω (50 Ω opt.)
P1dB:	+5 dBm	+5 dBm	+5 dBm
Frequency Response:	± 1 dB	± 1 dB	± 1 dB
Isolation (input-to-input):	60 dB	60 dB	60 dB
Isolation (output-to-output):	60 dB	60 dB	60 dB
Isolation (input-to-output):	65 dB	65 dB	65 dB
Return Loss:	14 dB	14 dB	14 dB
Control Response Time:	1.26 msec.	1.26 msec.	1.26 msec.
Switching Speed:	40 nsec.	40 nsec.	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.		
Local Control:	Front panel keypad with LCD display		
PC Remote Control:	RS-232, RS-422/485, IEEE 488 (GPIB), or TCP/IP 10 BaseT via customer-supplied PC, SNMP, TELNET		
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		

SRM 1000 Series Modular RF Matrix Switching System (5-1000MHz) Specifications

Frequency:	5-1000 MHz
Impedance:	75 Ω
Max. Total Operating Input Power:	0 dBm
Insertion Loss:	0 ± 2 dB
Frequency Response:	±3 dB
Isolation (input-to-output):	>45 dB
Isolation (output-to-output):	>55 dB
Isolation (input-to-output):	>50 dB
RF Connectors:	Type “F”, 75 Ω (BNC, SMA, or N optional)
Power Requirements:	100-240 VAC, 50/6. 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

SRM 2150 Series Modular RF Matrix Switching System (950-2150MHz) Specifications

Frequency:	950-2150 MHz
Impedance:	75 Ω
P1dB:	-7 dBm
Insertion Loss:	0 ± dB
Frequency Response:	±3 dB
Isolation (input-to-input):	≥ 45 dB
Isolation (output-to-output):	≥ 45 dB
Isolation (input-to-output):	>40 dB
Return Loss:	>10 dB
Noise Figure:	15 dB
RF Connectors:	Type "F", 75 Ω (BNC, SMA, or N optional)
Power Requirement:	100-240 VAC, 50/60Hz. Dual AC inputs and dual internal PSUs for redundancy.
Power Consumption:	Controller-UCM 10W Input Distribution Module-SRD 13W Matrix Switch Module-SRM 39W Output Switch Module-SRO 24W
Local Control:	Front panel keypad with LCD Displey
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

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