SRM Series

Modular, Full Fanout Non-blocking RF Matrix Switching Systems

SRM 2150/16x16

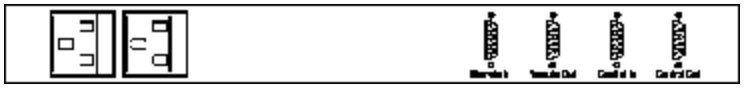
General Description:

Quintech's SRM Series Modular, Programmable, Q-Switch® Non-Blocking RF Matrix Switching systems, when fully integrated, are configured to route any of 16 to 128 inputs carrying RF signals to any number of 16 to 128 outputs. Quintech's multi-octave Q-Switch® systems utilize patented stack-and-tier technology offering compact, ultra-reliable, high performance realizations of radio frequency (RF) switching technology very cost effectively. This advanced realization greatly reduces the size, complexity and cost of large broadband RF switching systems, while enhancing their performance and reliability through a drastic reduction in the number of switching modules, component count, connectors and interconnection cables. Systems are non-DC-passing.

SRM Series System Configurations:

n x M	SRD	SRM	SRO	UCM
Input x Outputs	Input Distribution	Switch Modules	Output Distribution	Universal Control Module
16 x 16	0	1 + controller	0	0
16 x 32	1	2	0	1
16 x 48	1	3	0	1
16 x 64	1	4	0	1
32 x 16	0	2	1	1
32 x 32	2	4	2	1
32 x 48	2	6	3	1
32 x 64	2	8	4	1
48 x 16	0	3	1	1
48 x 32	3	6	2	1
48 x 48	3	9	3	1
48 x 64	3	12	4	1
64 x 16	0	4	1	1
64 x 32	4	8	2	1
64 x 48	4	12	3	1
64 x 64	4	16	4	1

Larger systems up to 128x128 are also available.



UCM 064 Universal Controller Module

Features & Benefits

Operating frequency ranges for Broadband Cable (5-1000 MHz), IF (70 / 140 MHz) and Satellite (950-2150 MHz).

Q-Switch® systems grow with you. The modular design allows for easy system installations and expansions.

The compact design, a result of Quintech's patented Stack and Tier technology, takes up less rack space, which is at a premium in most facilities.

Q-Switch® greatly enhances system reliability by eliminating the need for patch panels and repetitive mechanical connections.

Systems are controllable either locally via front panel keypad or remotely via computer and are compatible with most monitoring and control systems, freeing up technical staff to attend to more critical tasks, resulting in savings in direct cost and labor.

Q-Switch® allows for switching of alternate sources to comply with immediate changes in routing requirements.

GaAs switches provide nanoseconds switching speeds for seamless signal transitions.

Q-Switch® maximizes existing equipment: with automated scheduling, you can get the most out of your expensive network components, and with automated switching, there is no need for dedicated equipment, thus maximizing resources and minimizing costs.

UCM 064 Universal Controller Module - Up to 10 additional remote controllers can be plugged into the master controller.

The rear panel design facilitates structured cable routing, eliminating confusing tangles and bundles of cable.

Q-Switch® systems offer standard power redundancy for optimum system reliability and standard high isolation.

Easy access front panel keypad and LCD display provide convenient crosspoint identification.

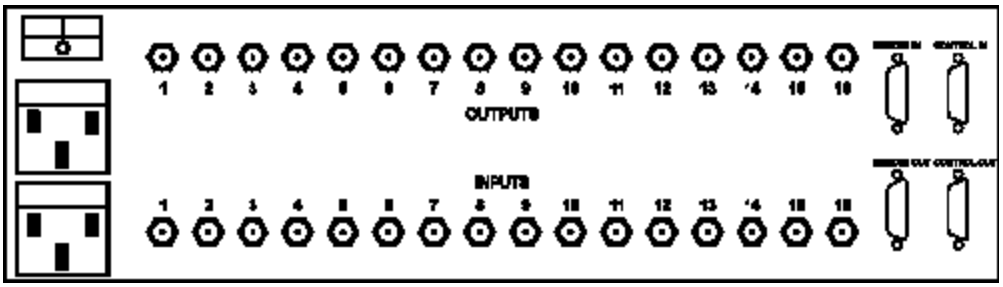
QUINTECH™
Electronics and Communications Inc.

(800) 839-3658
http://www.qecinc.com

The Source
For Broadband RF Signal Management Solutions

SRM SERIES MODEL#	SRM 70/140	SRM 1000	SRM 2150
Operating Frequency	70 MHz ± 20 / 140 MHz ± 20	5-1000 MHz	950-2150 MHz
Impedance	75Ω	75Ω	75Ω
Return Loss	> 11 dB	> 10 dB	> 9.5 dB
Nominal Gain	0 ± 2 dB max.	0 ± 2 dB max.	0 ± 2 dB max.
Frequency Response	± 0.5 dB max.	± 3 dB max.	± 3 dB max.
Isolation (Input to Input)	60 dB min.	50 dB typ., (45 dB min.)	60 dB typ., (45 dB min.)
Isolation (Output to Output)	60 dB min.	60 dB typ., (55 dB min.)	60 dB typ., (45 dB min.)
Isolation (Input to Output)	60 dB min.	60 dB typ., (50 dB min.)	55 dB typ., (40 dB min.)
RF Connectors	Type "F", 75Ω (See Options)	Type "F", 75Ω (See Options)	Type "F", 75Ω (See Options)
Power Required	100/240 VAC, 50/60 Hz Dual AC inputs and dual internal PSU's for redundancy	100/240 VAC, 50/60 Hz Dual AC inputs and dual internal PSU's for redundancy	100/240 VAC, 50/60 Hz Dual AC inputs and dual internal PSU's for redundancy
Local Control	Front panel keypad	Front panel keypad	Front panel keypad
Remote Control	RS-232 (See Options)	RS-232 (See Options)	RS-232 (See Options)
Mechanical	3 RU (5.25" High x 19" Wide x 20" Deep) (Dimensions of SRD, SRM & SRO Modules*) * See configuration diagram for number of each module.		
Options	BNC, SMA or N connectors RS-422, RS-485 or IP Addressable Control, Additional UCM 064 Remote Control Panel	BNC, SMA or N connectors RS-422, RS-485 or IP Addressable Control, Additional UCM 064 Remote Control Panel	BNC, SMA or N connectors RS-422, RS-485 or IP Addressable Control, Additional UCM 064 Remote Control Panel
Notes	* In systems between 64x64 and 128x128, SRD and SRO modules are 5 RU (8.75" High x 19" Wide x 20" Deep).		

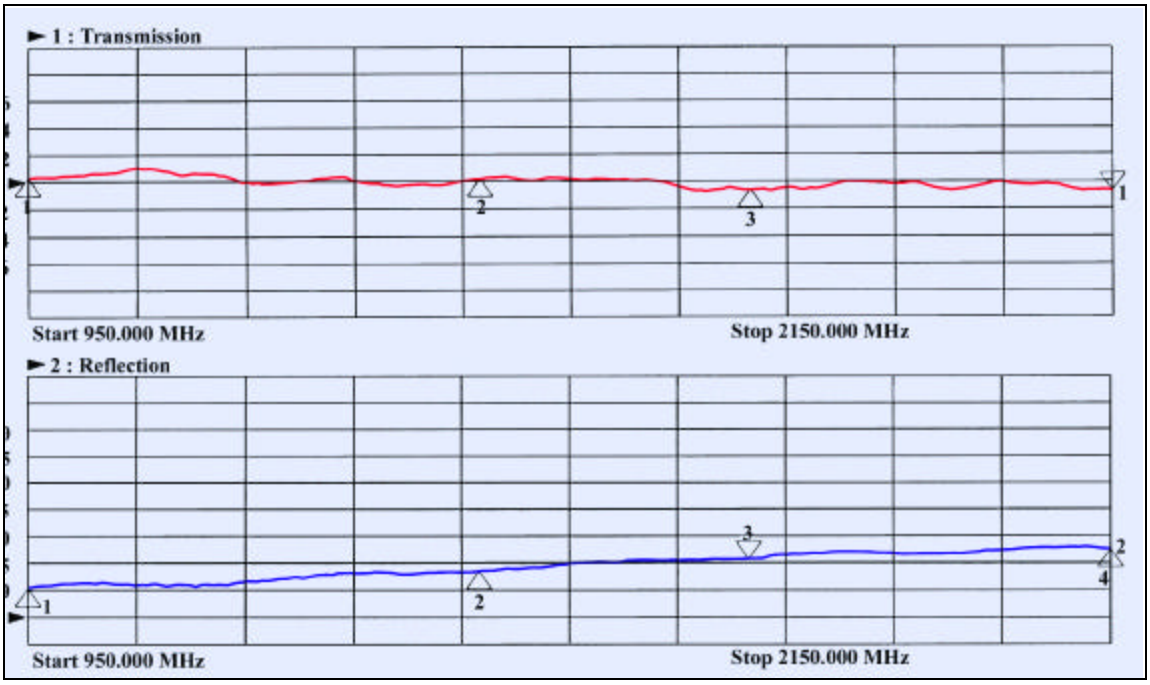
Larger systems up to 128x128 are available. Systems over 64x64 require 5 RU SRD and SRO modules. Call for more details.



SRM 2150/16x16

Typical SRM 2150 Plot

The graph to the right represents a typical plot of the insertion loss and return loss for an SRM 2150/16x16.



QUINTECH™
Electronics and Communications Inc.
(800) 839-3658
http://www.qecinc.com
The Source
For Broadband RF Signal Management Solutions