

RFM

31 Port RF Routing Switch

RFM250031X1UF000
31x1 F(f)

The **RFM2500** is a routing switch that transparently routes many source or destination signals to a common port. Its compact design provides 31x1 ports in a 2 RU of rack space and can be cascaded using multiple modules to route up to 256 source ports to a common port. The **RFM2500** is used for centralized test and measurement applications and monitoring a large number of RF signals.

5-2500 MHz wideband frequency range covers DOCSIS 3.1 and satellite extended L-band.

Flexible Configurations (16x1 or 1x16 expandable up to 256 inputs or outputs using multiple modules)

Web Browser Interface for easy configuration and switching

Automates testing or monitoring of multiple devices to a shared analyzer

Adjustable Output Gain

Gigabit Ethernet Port

Remote control using Web Browser, API, or SNMP (v2c, v3)



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31 Port RF Routing Switch

Specifications and Operating Conditions:

Base Configurations:	31x1 (standard), expandable up to 256x1		
RF Connectors:	F-type (75Ω)		
Operating Frequency: (MHz)	5-2500 MHz		
	5-1800	950-2150	5-2500
Frequency Response: Default Gain: typically Centered @ 0 dB	+/- 2 dB	+/- 2 dB	+/- 3.5 dB
Input P1dB:			
	4 dBm min	5 dBm min	4 dBm min
Noise Figure:			
	13 dB max	14 dB max	16 dB max
OIP3:			
	Default Gain: 15 dBm min		
Input Return Loss:	13 dB min	13 dB min	13 dB min
Output Return Loss:	14 dB min	14 dB min	13 dB min
Isolation:			
	Input to Input:	60 dB min	50 dB min
Input to Output :	50 dB min	50 dB min	45 dB min
Gain Range:	-24.5 to 7 dB in .5 dB steps		
Switching Speed:	150 mS per crosspoint typical * <2 uS from break to make		
Maximum Input Power: (No Damage)	20 dBm (30 VDC max on any port)		

Control:	
Local Control:	
Front Panel 2.2" LCD Display with Rotary Knob	
Remote Control:	
10/100/1000 Base Tx Ethernet Port	
SNMP	v2c, v3
TCP/IP	Quintech 1.21/2.15 Protocol (Port 9100)
Secure Web Server	
TELNET with option to disable	
XR Bus Expansion Standard	
NTP Time Client	

Alarms and Logging:	
SNMP Traps on Status Change	
SNMP Trap on Crosspoint Change	
SysLog, SQL, or CSV Format Log File	

Power and Cooling Requirements:	
AC Input Range:	100-240 VAC Auto-ranging 50/60 Hz 1A max
Power Consumption:	9 W

Physical:	
Rack Space:	2 RU

Environmental Parameters:	
Operating Temperature:	0 to 50° C
Storage Temperature:	-10° C to 75° C
Humidity:	20 % to 90% non-condensing
Altitude:	10,000 feet AMSL

* typical refers to expected product performance that is useful in application of the product but is not covered by the product warranty



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