

# RFM

## 16 Port RF Routing Switch

**RFM250016X1LF000**  
16x1 F(f)

The **RFM2500** is a routing switch that transparently routes many source or destination signals to a common port. Its compact design provides 16x1 ports in a 1RU chassis 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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## 16 Port RF Routing Switch

### Specifications and Operating Conditions:

<b>Base Configurations:</b>	16x1 (standard), expandable up to 256x1		
<b>RF Connectors:</b>	F-type (75Ω)		
<b>Operating Frequency: (MHz)</b>	5-2500 MHz		
	5-1800	950-2150	5-2500
<b>Frequency Response: Default Gain: typically Centered @ 0 dB</b>	+/- 1.5 dB	+/- 1.5 dB	+/- 3 dB
	Any 36 MHz: +/- .3 dB		
<b>Input P1dB:</b>			
	4 dBm min	5 dBm min	4 dBm min
<b>Noise Figure:</b>			
	13 dB max	14 dB max	16 dB max
<b>OIP3:</b>			
	Default Gain: 15 dBm min		
<b>Input Return Loss:</b>	13 dB min	13 dB min	13 dB min
<b>Output Return Loss:</b>	14 dB min	14 dB min	13 dB min
<b>Isolation:</b>			
	Input to Input:	60 dB min	50 dB min
Input to Output :	50 dB min	50 dB min	45 dB min
<b>Gain Range:</b>	-24.5 to 7 dB in .5 dB steps		
<b>Switching Speed:</b>	150 mS per crosspoint typical * <2 uS from break to make		
<b>Maximum Input Power: (No Damage)</b>	20 dBm (30 VDC max on any port)		

<b>Control:</b>	
<b>Local Control:</b>	
Front Panel 2.2" LCD Display with Rotary Knob	
<b>Remote Control:</b>	
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	

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

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

<b>Physical:</b>	
<b>Dimensions:</b>	1 RU (1.75" H x 19" W x 18.5" D)
<b>Weight:</b>	9 lbs.gross (boxed), 6 lbs. net

<b>Environmental Parameters:</b>	
<b>Operating Temperature:</b>	0 to 50° C
<b>Storage Temperature:</b>	-10° C to 75°C
<b>Humidity:</b>	20 % to 90% non-condensing
<b>Altitude:</b>	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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