

RFM

RF Monitoring Switch for CATV Headends



General Description

The **RFM** is a DOCSIS 3.1 compliant routing switch that transparently passes RF signals with a frequency range of 5 to 1800 MHz. Quitech's proprietary design provides lossless switching while minimizing noise figure through the switch, allowing high CNR and distortion free modulation error rate (MER). It's compact design fits 16x1 in a 1RU chassis and the switches can be cascaded to expand to 256x1. The **RFM** is used for centralized test and measurement applications monitoring large numbers of RF signals.

Features & Benefits

- 5 MHz to 1800 MHz continuous frequency range covering all DOCSIS 3.1 1200 MHz and 1800 MHz frequencies
- Unity gain switching with low noise figure
- Pay as you grow, expandable in the field to 256x1
- Remote control over TCP/IP via open source API
- Web browser interface for easy setup and configuration

Applications

- Remote testing of CATV head ends and monitoring of upstream and downstream paths
- Automate testing of multiple devices under test to shared analyzer

Specifications*	RFM
Operating Frequency:	5-1800 MHz
Configuration:	16x1 (Up to 256x1 with Additional Modules)
Impedance:	75 Ω
P1dB:	+3 dBm
OIP3:	17 dBm
Insertion Loss:	0 dB @ ± 1 dB
Isolation:	60 dB
Input Return Loss:	14 dB
Output Return Loss:	14 dB
Noise Figure:	< 6 dB
RF Connector:	F-Type
Power Requirements:	100-240 VAC, 50/60 Hz
Power Consumption:	15 W
Remote Control:	Ethernet Port: TELNET, TCP/IP or Web Browser Interface
Control Module Connectors:	RJ45, XR Bus
Expansion Module Connectors:	XR Bus
Mechanical:	1RU: 1.75" H x 19" W x 18.5"

*All product designs and specifications subject to change without notice. See individual specification sheet for specific performance data.