



RAM-20-200-PSM

Rack Mounted DWDM Mux for 200 GHz with Integrated Power Splitter

Key Features

- Intelligent Solution for Optical Restoration
- Primary/Protection Fiber Optical Splitter
- Power Alarm LEDs
- EDFA loop connectors
- Remote Configuration and Monitoring

Applications

- HFC DWDM Links with Protection Fiber
- Metropolitan DWDM Networks



Product Overview

The RAM-20-200-PSM Power Splitter/Mux combo is a 2RU rack-mount solution targeted for Broadband and Telco applications using redundant DWDM links. The unit integrates a low-loss DWDM Multiplexer and a 1X2 optical splitter with value-added monitoring and control electronics. The customer specified splitter divides optical power between primary and protection fibers, providing a redundant optical link. An enhanced set of power alarms informs the operator about the health of the optical transmission. The unit is recommended for use in conjunction with the RAM-20-200-PSD Protection Switch/Demux.

Product Specifications

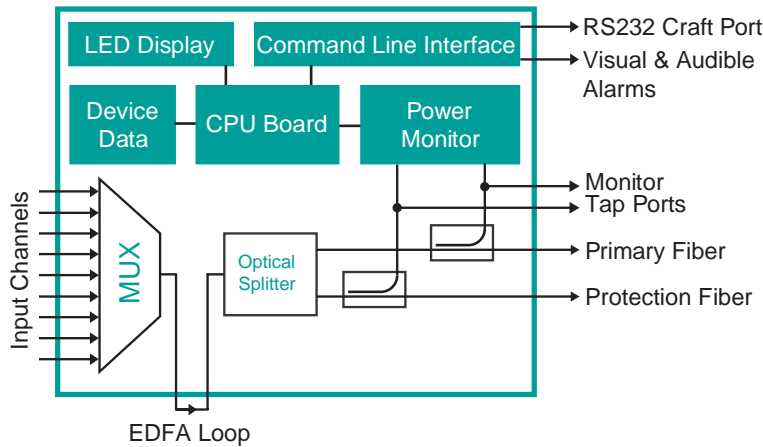
(Valid over full temperature range, within specified passband, across all channels and polarizations)

Channel Count	20 ¹⁾	Typical Min/Max Insertion Loss (IL) (Not including optical splitter)	3.0/3.5 dB
Channel Spacing	200 GHz	Guaranteed Max. IL (Not including optical splitter)	4.0 dB
Channel Plan	Customer specified on ITU Grid, C- or L-Band	IL Uniformity Across All Channels	≤1.0 dB
Optical Splitting Ratio	Customer specified	Ripple	≤0.5 dB
Alarms	Absolute power level	Filter Shape	Flat
Power Alarms Range	-45 to +24 dBm	0.5-dB Filter Width	0.52 nm
Power Resolution	0.1 dB	Channel Passband	0.33 nm
CLI Interface	RS232	Adjacent Wavelength Isolation	≥27 dB
Electrical Requirements	-48 VDC or 120 VAC ²⁾	Non-adjacent Wavelength Isolation	≥35 dB
Operating Temperature Range	-5 to +65 °C	Polarization Dependent Loss (Typ.)	<0.35 dB
Dimensions	16" W x 3.5" H x 12" D	Optical Return Loss	>40 dB
		Chromatic Dispersion	<5 ps/nm
		Polarization Mode Dispersion	<0.1 ps/nm

1) Other configurations available up to 52 channels

2) With optional adapter

RAM-20-200-PSM Block Diagram



Integrated Intelligence

- Primary and protection fiber power monitor
- User defined power alarms
- Access to device data

LED Display

- Alarm notification
- Power supply status

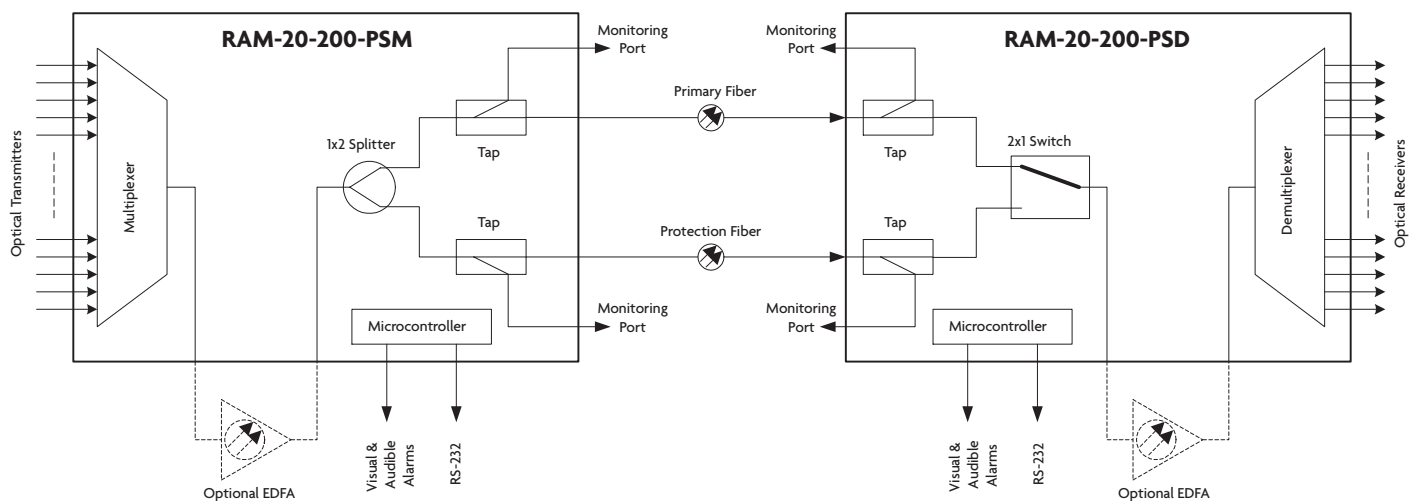
Interface

- Serial port RS232
- Command line interface (CLI)
- Relays for visual and audible alarms

Monitor Tap Ports

- 0.5% splitting ratio
- Primary and protection

Application Example (Two-fiber link with restoration)



Specifications subject to change without notice. Rev. 06/04
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