FRM220-OAB21A

Optical Amplifiers Booster

Single Channel EDFA Booster 21dB

The FRM220-OAB21A is a single channel optical amplifier/booster module that provides multi-function, low noise, Erbium-Doped Fiber Amplifier (EDFA) solutions for metro Dense Wavelength Division Multiplexing (DWDM) applications. The FRM220-OAB21A operates at the transmission side of the link. It features high input power, high output power, and medium optical gain and is designed to amplify aggregated optical input power for reach extension. The FRM220-OAB21A provides Automatic Gain Control (AGC) via rack management or RS-232 console interface. Its fast-transient suppression feature allows the output power to be kept at a constant level when there are fast changes in input power.

Features

- Automatic Gain Control (AGC)
- Advanced performance monitoring
- Input and output power levels
- Up to 21 dBm output power
- Gain flattening filters (GFF) assure flat gain (<0.75 dB variance) over the entire amplified C-band.

- LC/UPC connector
- Hot-swap support
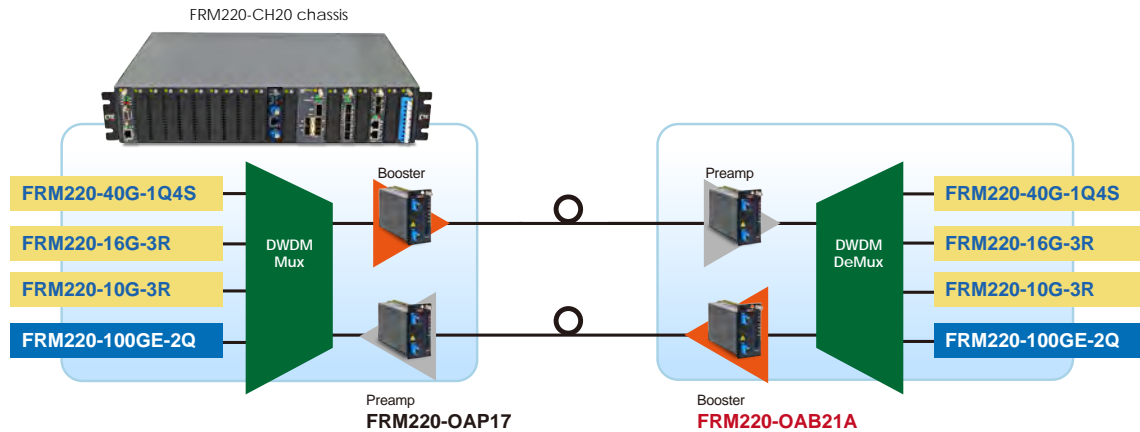- Single channel EDFA with FRM220 chassis rack management

■ Applications

- Metropolitan WAN network system
- C-Band DWDM network system
- CATV transmission system

Specifications

Operating wavelength	1528 ~ 1563nm
Input power	-20 ~ +5dBm
Signal gain	15 ~ 25dB
Total output power	-5 ~ +21dBm
Total saturated output power	+21dBm
Gain flatness (Max.)	≤ ±0.75dB
Noise figure	5.5dB (Typ)
Polarization dependent gain (Max.)	0.5dB
Polarization mode dispersion (Max.)	0.5ps
Output power stability (Max.)	±0.1dB
Return loss (Min.)	45dB
Connector	LC/UPC
Control mode	AGC
Operation case temperature	0 ~ 65°C
Relative humidity (non-condensing)	5 ~ 85%
Laser Class	Class 1M
Power consumption	14W
Dimension	159.5 × 42.1 × 88mm (D×W×H)

Application

EDFA booster/Preamp DWDM P to P application

FRM220-CH20 chassis

Ordering Information

Model Name	Description
FRM220-OAB21A	DWDM C -band EDFA booster card 21dBm with automatic gain control (AGC)

■ Chassis Option

Model Name	Description
FRM220-CH20(HS)	2U 19", 20 slots rack mount chassis with high speed cooling fan and rack mounting kit
FRM220-AC(HP)	Chassis power module 90 ~ 264 VAC, IEC connector, 300W
FRM220-DC48(HP)	Chassis power module 36 ~ 60 VDC, 3 pin terminal block, 300W
FRM220-CH02M-AC/DC/AD	2-slot chassis with console port and AC, DC or AD power, with fan
FRM220-CH04A-AC/DC/AD	4-slot chassis with built-in AC, DC or AD power