



FRM220-OAB21A

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

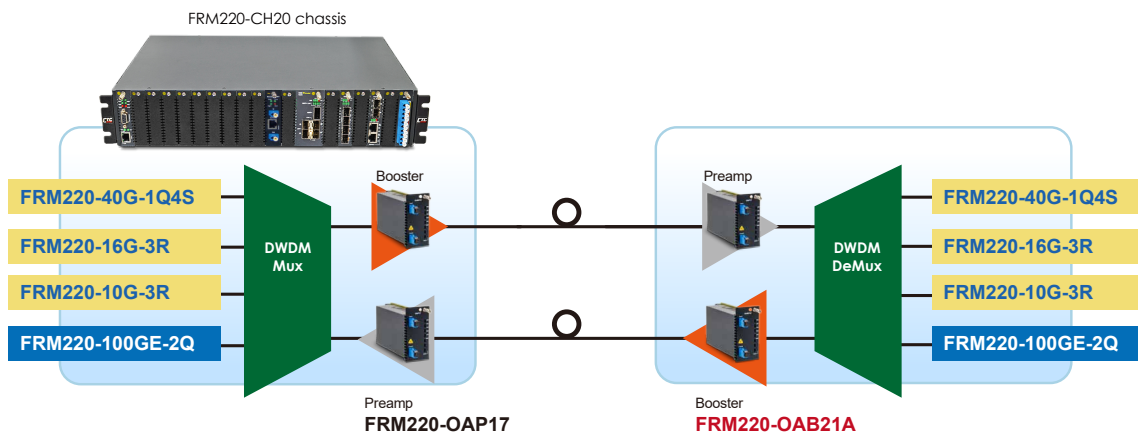
- Metropolitan WAN network system
- C-Band DWDM network system
- CATV transmission system

Specifications

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

Application

EDFA booster/Preamp DWDM P to P application



Ordering Information

Model Name	Description
FRM220-OAB21A	DWDM C-band EDFA booster card 21 dBm 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 ~ 75 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