

GF-6800-BA20PA20

GF-6800-BA20/G15V+PA20/G20V / Gain support ± 5 dB adjustment

1. Product overview

GF-6800-BA20PA20 – C-Band EDFA Booster & Pre-Amplifier Module The GF-6800-BA20PA20 is a high-performance dual-function EDFA optical amplifier module designed for the HT6800 DCI DWDM Optical Transmission System. The module integrates both a Booster Amplifier (BA) and a Pre-Amplifier (PA) in a single card, providing optical amplification on both the transmit and receive sides of a DWDM link. It is designed to compensate for optical losses and extend transmission distance in Data Center Interconnect, metro, backbone and long-haul DWDM networks. The EDFA module supports Automatic Gain Control (AGC), Automatic Power Control (APC) and Automatic Current Control (ACC), together with integrated optical monitoring and remote management functions.



2. Key features

Product type: Dual-function EDFA Optical Amplifier Module • Model: GF-6800-BA20PA20 • Platform: GF-6800 DCI DWDM Optical Transmission System

3. Applications

Data Center Interconnect (DCI) • Metro DWDM networks • Long-haul DWDM transmission • Backbone optical networks • 100G / 200G / 400G coherent DWDM systems • Point-to-point optical transmission • High-loss fiber spans • Booster amplification after DWDM multiplexers • Pre-amplification before optical receivers

4. Technical data

Product type: Dual-function EDFA Optical Amplifier Module	Chassis occupancy: 2 slots
Model: GF-6800-BA20PA20	Booster Amplifier (BA) for transmit-side optical amplification
Platform: GF-6800 DCI DWDM Optical Transmission System	Pre-Amplifier (PA) for receive-side optical amplification
Amplifier configuration: Booster Amplifier (BA), Pre-Amplifier (PA)	Compensates for fiber attenuation
Optical amplifier technology: Erbium-Doped Fiber Amplifier (EDFA)	Compensates for passive DWDM MUX/DEMUX losses
Operating band: C-band	Suitable for extended-reach coherent DWDM links
	Supports high optical link budgets

5. Recommended operating conditions

Module dimensions: 216 × 254 × 42 mm (W × D × H)	Relative humidity: 5% to 95%, non-condensing
Operating temperature: -10°C to +60°C	Maximum power consumption: ≈ 30 W
Storage temperature: -40°C to +80°C	Modular GF-6800 card design

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6. Optical characteristics

Operating wavelength range: 1528–1565 nm	Polarization Dependent Loss (PDL): =0.3 dB
Maximum optical output power: up to +20 dBm	Polarization Dependent Gain (PDG): =0.4 dB
Supported gain range: 8–33 dB	Polarization Mode Dispersion (PMD): =0.5 ps
Typical noise figure: 5.0 dB	Pump leakage: =-29 dBm
Typical gain flatness: 1.0 dB	Return loss: =45 dB
Adjustable input threshold: down to -34 dBm	VOA gain adjustment: ±5 dB

7. Digital diagnostics and management

Automatic Gain Control (AGC)	Integrated optical power monitoring
Automatic Power Control (APC)	MON port for optical power supervision
Automatic Current Control (ACC)	OSC interface for remote network management
Adjustable AGC gain	Supports 1510 nm OSC interface
Adjustable APC output power	Supports 1625 nm OTDR interface
Adjustable amplifier control parameters	Remote monitoring through the GF-6800 management platform

8. Safety and regulatory

The product page does not specify regulatory certifications or a laser safety class.

9. Ordering information

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10. General notes

Equality signs (for example “=30 W”) and source asterisks are retained as published; no different limit is inferred. • Technical values and product image: GLOBALfiber product page, Technical Info. Unspecified parameters have not been inferred. Accessed 06.09.2026.

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