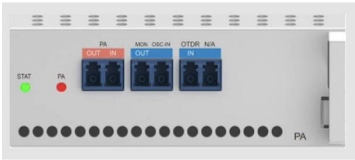


GF-6800-LA20/G150V

GF-6800-LA20/G150V / Gain support ±5dB adjustment.

1. Product overview

GF-6800-LA20/G150V – C-Band EDFA Line Amplifier Module The GF-6800-LA20/G150V is a high-performance C-band Erbium-Doped Fiber Amplifier (EDFA) Line Amplifier designed for the GF-6800 DCI DWDM Optical Transmission System. The module is designed for in-line optical amplification in DWDM transmission networks, compensating for fiber attenuation and passive optical losses between network nodes. It is suitable for Data Center Interconnect (DCI), metro, backbone and long-haul coherent DWDM applications. The amplifier provides low-noise optical amplification with adjustable gain and supports multiple operating modes, including Automatic Gain Control (AGC), Automatic Power Control (APC) and Automatic Current Control (ACC).



2. Key features

Product type: EDFA Line Amplifier Module • Model: GF-6800-LA20/G150V • Platform: GF-6800 DCI DWDM Optical Transmission System

3. Applications

Data Center Interconnect (DCI) • Metro DWDM networks • Long-haul DWDM transmission • Backbone optical networks • Intermediate EDFA amplification sites • Point-to-point coherent DWDM links • 100G / 200G / 400G coherent transmission • High-loss optical fiber spans • Multi-channel C-band DWDM systems

4. Technical data

Product type: EDFA Line Amplifier Module	Compensates for optical fiber attenuation
Model: GF-6800-LA20/G150V	Compensates for passive DWDM component losses
Platform: GF-6800 DCI DWDM Optical Transmission System	Extends transmission distance between optical network nodes
Amplifier type: Line Amplifier (LA)	Suitable for placement at intermediate amplification sites
Optical amplifier technology: Erbium-Doped Fiber Amplifier (EDFA)	Supports multi-channel DWDM transmission
Chassis occupancy: 2 slots	Designed for coherent optical transmission systems
In-line amplification of C-band DWDM signals	Supports dual-channel amplification architecture
	GF-6800 OA/OLA platform supports BA/PA or 2 × LA configurations

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	Compatible with GF-6800 chassis

GF-6800-LA20/G150V

6. Optical characteristics

Operating optical band: C-band	Adjustable input threshold: down to -34 dBm
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
	VOA gain adjustment: ±5 dB

7. Digital diagnostics and management

Automatic Gain Control (AGC)	Integrated optical power monitoring
Adjustable AGC gain	MON port for optical power supervision
Automatic Power Control (APC)	OSC interface for remote network management
Adjustable APC output power	1510 nm OSC interface support
Automatic Current Control (ACC)	1625 nm OTDR interface support
Adjustable VOA	Remote monitoring through the HT6800 management platform
VOA gain adjustment range: ±5 dB	Hot-swappable modular design

8. Safety and regulatory

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

9. Ordering information

GF-6800-LA20/G150V GF-6800-LA20/G150V / Gain support ±5dB adjustment.

10. General notes

The optical specifications above are given for the GF-6800 OA/OLA EDFA family. • 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.

Source: GLOBALfiber product page – Technical Info