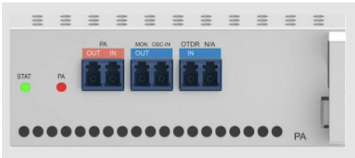


GF-6800-PA16/G20V

GF 6800-PA16/G20V, Gain support ±5dB adj / 15-25 Gain adjustment

1. Product overview

GF-6800-PA16/G20V – EDFA Optical Amplifier Module The GF-6800-PA16/G20V is a high-performance C-band Erbium-Doped Fiber Amplifier (EDFA) designed to extend transmission distance and compensate for optical link loss in DWDM networks. With a nominal gain of 20 dB, the module is suitable for long-distance DCI, metro and backbone optical transmission applications. The amplifier provides low-noise amplification and supports Automatic Gain Control (AGC), Automatic Power Control (APC) and Automatic Current Control (ACC). Integrated monitoring interfaces provide optical power supervision and support remote network management.



2. Key features

Product type: EDFA Optical Amplifier Module • Model: 6800-PA16/G20V • Application: Pre-Amplifier / Line Amplifier

3. Applications

DWDM optical transport; applications and integration are described in Product overview.

4. Technical data

Product type: EDFA Optical Amplifier Module	Supports 1510 nm OSC interface
Model: 6800-PA16/G20V	Supports 1625 nm OTDR interface
Application: Pre-Amplifier / Line Amplifier	Designed for integration with the HT6800 DCI DWDM platform
Optical amplifier technology: Erbium-Doped Fiber Amplifier (EDFA)	Hot-swappable modular design
Operating modes:	Module dimensions: 216 × 254 × 42 mm (W × D × H)
	Power consumption: ≈30 W

5. Recommended operating conditions

Operating temperature: -10°C to +60°C
Storage temperature: -40°C to +80°C
Relative humidity: 5% to 95%, non-condensing

GF-6800-PA16/G20V

6. Optical characteristics

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

7. Digital diagnostics and management

Automatic Gain Control (AGC)
Automatic Power Control (APC)
Automatic Current Control (ACC)
Supports optical power monitoring via MON port
Supports OSC interface for remote network management and monitoring

8. Safety and regulatory

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

9. Ordering information

GF-6800-PA16/G20V GF 6800-PA16/G20V, Gain support ±5dB adj / 15-25 Gain adjustment
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10. General notes

Sales description specifies 15–25 gain adjustment; Technical Info specifies nominal 20 dB, ±5 dB VOA adjustment and an amplifier gain range of 8–33 dB. • 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