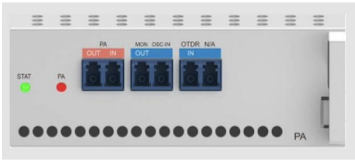


GF-6800-PA16/G15V

GF 6800-PA16/G15V, Gain support ±5dB adj / 10-20 Gain adjustment

1. Product overview

GF-6800-PA16/G15V – EDFA Optical Amplifier Module The GF-6800-PA16/G15V is a high-performance C-band Erbium-Doped Fiber Amplifier (EDFA) designed for DWDM optical transmission systems. The module provides low-noise optical amplification with stable gain and output power, making it suitable for use as a pre-amplifier (PA), line amplifier (LA) or as part of an optical amplifier configuration in long-haul and DCI networks. The amplifier supports multiple operating modes, including Automatic Gain Control (AGC), Automatic Power Control (APC) and Automatic Current Control (ACC). Integrated optical monitoring and management functions simplify deployment and operation in managed DWDM networks.



2. Key features

Product type: EDFA Optical Amplifier Module • Model: 6800-PA16/G15V • 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 1625 nm OTDR interface
Model: 6800-PA16/G15V	Designed for integration with the HT6800 DCI DWDM platform
Application: Pre-Amplifier / Line Amplifier	Hot-swappable modular design
Optical amplifier technology: Erbium-Doped Fiber Amplifier (EDFA)	Module dimensions: 216 × 254 × 42 mm (W × D × H)
Supports 1510 nm OSC interface	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/G15V

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: 15 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

Operating modes: 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/G15V GF 6800-PA16/G15V, Gain support ±5dB adj / 10-20 Gain adjustment
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10. General notes

Sales description specifies 10–20 gain adjustment; Technical Info specifies nominal 15 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