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Data Sheet

August 14, 2026

EXFO / NETTEST / PHOTONETICS

Exfo / NetTest / Photonetics BT-17 High Power C-Band Fiber Amplifier

The EXFO (Photonetics/NetTest lineage) FIBERAMP BT-17 is a benchtop C-band erbium-doped fiber amplifier booster with saturated output power +17 dBm. Published product specifications list wavelength range 1525 to 1560 nm, small-signal gain greater than 25 dB (30 dB typical), typical noise figure 4.5 dB with 980 nm co-propagating pump, polarization sensitivity of gain less than 0.25 dB, and IEEE-488 remote control with constant-power or constant-current modes. C-band source boosting for component and system test, EDFA stimulus for DWDM laboratory setups, and programmable optical amplification under GPIB automation. Calibration Traceability Class: per OEM calibration certificate Connector Condition Class: clean inspected connectors required for optical specs Documentation Source Class: OEM datasheet or instruction manual Numeric rows from published EXFO/Photonetics FIBERAMP-BT 17 product specification summaries used by major test-equipment archives. Confirm exact noise-figure and gain footnotes on the unit datasheet revision and faceplate.



MODEL

**Exfo / NetTest /
Photonetics BT-17**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

BT-17

LISTING

<https://aumictechlabs.com/products/bt-17-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Exfo / NetTest / Photonetics BT-17 is a high-power C-band Erbium-Doped Fiber Amplifier (EDFA) engineered for signal boosting in optical communication systems. Operating across the C-

band wavelength range of 1525 nm to 1560 nm with a 980 nm pump diode, the BT-17 delivers saturated output power up to +17.7 dBm and achieves small-signal gain exceeding 25 dB with typical noise figure of 4.5 dB. The amplifier supports both Constant Power Mode and Constant Current Mode operation, with pump power or current adjustable via IEEE488 interface or front-panel dials. Aluminum co-doping provides flat spectral response optimized around 1550 nm, ensuring gain flattening across the C-band. Input/output isolation reaches 35 dB, while polarization sensitivity of gain remains at 0.5 dB nominal. Technical Specifications Wavelength Range: 1525 nm to 1560 nm Pump Wavelength: 980 nm Saturated Output Power: Nominal +17 dBm; measured up to +17.7 dBm Small-Signal Gain: Typical 30 dB; >25 dB minimum; >35 dB at 1530 nm; 25 dB at 1550 nm Noise Figure: 4.5 dB typical; 6 dB maximum Input/Output Isolation: 35 dB Polarization Sensitivity of Gain: 0.5 dB Optical Connectors: FC/APC Fiber Type: Single-mode Key Features Dual operating modes Constant Power and Constant Current - for flexible system integration Gain flattening across C-band via aluminum co-doping User-programmable pump control through IEEE488 interface or mechanical front-panel adjustment Rear-panel analog monitoring outputs for real-time signal supervision Optional RS-232 serial interface for OEM integration Available in benchtop, rackmount, modular, and OEM configurations Typical Applications Dense wavelength division multiplexing (DWDM) systems Long-haul telecommunications networks Optical communication research and development Source booster amplification in advanced optical infrastructures Compatibility & Integration Optical connectors use FC/APC standard. The BT-17 integrates with DWDM system architectures requiring high-power C-band signal amplification. IEEE488 control and analog monitoring enable seamless operation in automated test and production environments.

Features & description

From manufacturer datasheet

Polarization Sensitivity Of Gain: less than 0.25 dB

Operating Modes: constant power and constant current Remote Interface: IEEE-488 Optical Connectors Class: FC/APC on front panel Fiber Type: singlemode Form Factor: benchtop chassis (rackmount class available) Spectral Window: 1.55 um C-band Intended Role: source booster EDFA Manufacturer Lineage: EXFO / NetTest / Photonetics Pump Power Control: user programmable via GPIB or front panel Gain Medium: erbium-doped fiber Input Output Ports: optical in and optical out class Specification Ambient Class: laboratory ambient unless OEM table states otherwise Calibration Traceability Class: per OEM calibration certificate Connector Condition Class: clean inspected connectors required for optical specs Documentation Source Class: OEM datasheet or instruction manual Notes Numeric rows from published EXFO/Photonetics FIBERAMP-BT 17 product specification summaries used by major test-equipment archives. Confirm exact noise-figure and gain footnotes on the unit datasheet revision and faceplate.

17 Characteristics / Specifications

PARAMETER	VALUE
Model	BT-17 / FIBERAMP-BT 17
Wavelength Range	1525 to 1560 nm
Saturated Output Power	+17 dBm
Small Signal Gain	greater than 25 dB (30 dB typical)
Noise Figure Typical	4.5 dB
Pump Configuration	single 980 nm co-propagating pump
Polarization Sensitivity Of Gain	less than 0.25 dB
Operating Modes	constant power and constant current
Remote Interface	IEEE-488
Optical Connectors Class	FC/APC on front panel
Fiber Type	singlemode
Form Factor	benchtop chassis (rackmount class available)
Spectral Window	1.55 um C-band
Intended Role	source booster EDFA
Manufacturer Lineage	EXFO / NetTest / Photonetics
Pump Power Control	user programmable via GPIB or front panel
Gain Medium	erbium-doped fiber
Input Output Ports	optical in and optical out class
Specification Ambient Class	laboratory ambient unless OEM table states otherwise
Calibration Traceability Class	per OEM calibration certificate
Connector Condition Class	clean inspected connectors required for optical specs
Documentation Source Class	OEM datasheet or instruction manual

17 Specifications

PARAMETER	VALUE
Key Features	Saturated output +17 dBm
Constant power or constant current operating modes	IEEE-488 programmable pump control
Technical Specifications	Model: BT-17 / FIBERAMP-BT 17

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

specifications list wavelength range 1525 to 1560 nm, small-signal gain greater than 25 dB (30 dB typical), typical noise figure 4.5 dB with 980 nm co-propagating pump, polarization sensitivity of gain less than 0.25 dB, and IEEE-488 remote control with constant-power or constant-current modes.

Applications

C-band source boosting for component and system test, EDFA stimulus for DWDM laboratory setups, and programmable optical amplification under GPIB automation.

Key Features

Saturated output +17 dBm

Constant power or constant current operating modes

IEEE-488 programmable pump control

Benchtop or rackmount chassis class

Singlemode FC/APC front-panel optical interface class

Technical Specifications

Technical Specifications

PARAMETER	VALUE
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Notes

Numeric rows from published EXFO/Photonetics FIBERAMP-BT 17 product specification summaries used by major test-equipment archives. Confirm exact noise-figure and gain footnotes on the unit datasheet revision and faceplate.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.