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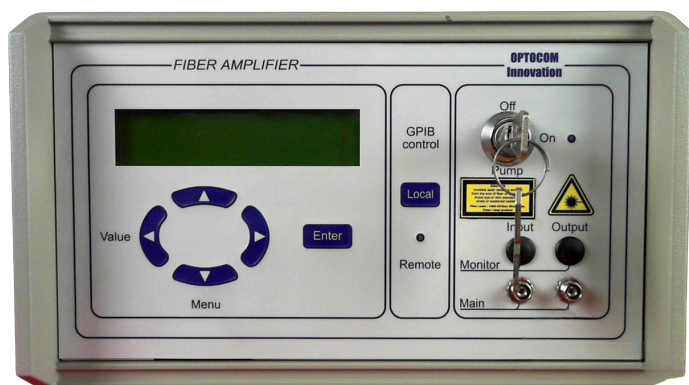
Data Sheet

August 13, 2026

KEOPSYS/OPTOCOM INNOVATION

Keopsys / Optocom Innovation KPS-BT-C-10-FA

The Keopsys/Optocom Innovation KPS-BT-C-10-FA is a C-band erbium-doped fiber amplifier engineered for optical communication and sensing applications requiring high output power and low noise performance. This microprocessor-controlled benchtop unit employs Keopsys' proprietary VSP® (V-groove Side Pumping) technology to achieve efficient amplification across the C-band. Automatic Power Control (APC) and Automatic Current Control (ACC) maintain stable output regardless of input signal variations. An integrated GPIB interface enables remote operation, real-time diagnostics, and automated data acquisition, making the KPS-BT-C-10-FA ideal for both laboratory characterization and OEM system integration. Noise Figure: Less than 5.0 dB (lower output power models); up to less than 9.0 dB (higher output power models) Small Signal Gain: Greater than 35 dB (lower output power); greater than 40 dB

**MODEL****Keopsys/Optocom
Innovation KPS-
BT-C-10-FA****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****KPS-BT-C-10-FA****LISTING**[https://aumictechlabs.c
om/products/kps-bt-c-1
0-fa-2/](https://aumictechlabs.com/products/kps-bt-c-10-fa-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

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the C-band. Automatic Power Control (APC) and Automatic Current Control (ACC) maintain stable output regardless of input signal variations. An integrated GPIB interface enables remote operation, real-time diagnostics, and automated data acquisition, making the KPS-BT-C-10-FA ideal for both laboratory characterization and OEM system integration.

Technical Specifications

Optical Performance Wavelength Region: C-Band, 1535 nm – 1565 nm Saturated Output Power: 21 dBm to 37 dBm (depending on configuration) Optical Input Power: –15 dBm to 0 dBm (–20 dBm minimum on selected models) Noise Figure: Less than 5.0 dB (lower output power models); up to less than 9.0 dB (higher output power models) Small Signal Gain: Greater than 35 dB (lower output power); greater than 40 dB (higher output power) Gain Flatness: Less than 1.5 dB across operational bandwidth Polarization Dependent Gain: Less than 0.5 dB Polarization Mode Dispersion: Less than 1 ps Optical Isolation: Greater than 30 dB Return Loss: Less than –40 dB

Control and Interfaces Operating Mode: Turnkey, microprocessor-controlled Power Control: Constant pump current or output power Stability: Automatic Power Control and Automatic Current Control enabled Alarms: Integrated status monitoring and alarm management Remote Interface: GPIB for diagnostics and data acquisition Optical Connectors: FC/APC Safety Laser Classification: Class IV

Key Features VSP® pumping technology for high efficiency Dual feedback control (APC/ACC) for input-independent operation GPIB remote interface for automated systems Integrated alarms and status indicators Minimal polarization-dependent gain variation

Typical Applications High-power optical signal amplification in long-haul transmission Distributed fiber sensing systems Laboratory measurement and characterization OEM integration in optical communication equipment

Compatibility & Integration FC/APC optical connectors ensure compatibility with standard C-band systems. GPIB connectivity supports integration into automated test environments and production systems.

KPSBTC10FA Characteristics / Specifications

PARAMETER	VALUE
Model	KPS-BT-C-10-FA
Manufacturer	Keopsys / Optocom Innovation
Instrument Type	C-band erbium doped fiber amplifier
Series	KPS-BT-C / OI-BT-C
Alias	KPS-BT-C-10-FA; OI-BT-C-10 class
Saturated Output	10 dBm
Saturated Power Class	10 mW
Band	C-band
Wavelength Range	1535 to 1565 nm
Optical Connectors	FC/APC
Control APC	automatic power control
Control ACC	automatic current control
Form	microprocessor benchtop EDFA
Monitor Diodes	input and output photodiodes family
Alarms	pump and status on bench unit
Variant FA	FC/APC
Former Brand	Optocom Innovation OI-BT-C
Related 18 dBm	OI-BT-C-18-Sd-B-GP-FA / KPS-BT-C-18
Related LN	KPS-BT-C-18-LN-FA low-noise 18 dBm
Related Higher	KPS-BT-C to 33-37 dBm catalog members
NotALaser	EDFA only
Pump	internal 980/1480 nm class
Gain	input-level dependent; 10 dBm is saturated output
Remote Family	GPiB on GP-suffix BT-C units
Status	Keopsys benchtop

PARAMETER	VALUE
Cooling	bench EDFA airflow
Duty	continuous within 10 dBm
Safety	IR laser from fiber output
Identification	KPS-BT-C-10-FA
OS Class	not applicable (embedded controller) Notes Specs from Keopsys KPS-BT-C family (10 dBm FA, 1535-1565 nm, APC/ACC, FC/APC). Confirm GPIB versus front-panel-only and exact NF/gain on the nameplate. Do not invent gain or noise figure.

KPSBTC10FA Specifications

PARAMETER	VALUE
Applications	C-band 10 dBm booster or in-line EDFA
Key Features	10 dBm C-band saturated output
Technical Specifications	Model: KPS-BT-C-10-FA

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	
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Manufacturer	Keopsys / Optocom Innovation
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Alias	KPS-BT-C-10-FA; OI-BT-C-10 class
Saturated Output	10 dBm
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Optical Connectors	FC/APC
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Control ACC	automatic current control
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Form	microprocessor benchtop EDFA
Monitor Diodes	input and output photodiodes family
Alarms	pump and status on bench unit

Specifications

PARAMETER	VALUE
Variant FA	FC/APC
Former Brand	Optocom Innovation OI-BT-C
Related 18 dBm	OI-BT-C-18-Sd-B-GP-FA / KPS-BT-C-18

Specifications

PARAMETER	VALUE
Related LN	KPS-BT-C-18-LN-FA low-noise 18 dBm
Related Higher	KPS-BT-C to 33-37 dBm catalog members
NotALaser	EDFA only

Specifications

PARAMETER	VALUE
Pump	internal 980/1480 nm class
Gain	input-level dependent; 10 dBm is saturated output
Remote Family	GPIB on GP-suffix BT-C units

Specifications

PARAMETER	VALUE
Status	Keopsys benchtop
Cooling	bench EDFA airflow
Duty	continuous within 10 dBm

Specifications

PARAMETER	VALUE
Safety	IR laser from fiber output
Identification	KPS-BT-C-10-FA
OS Class	not applicable (embedded controller)

Notes

Specs from Keopsys KPS-BT-C family (10 dBm FA, 1535-1565 nm, APC/ACC, FC/APC). Confirm GPIB versus front-panel-only and exact NF/gain on the nameplate. Do not invent gain or noise figure.

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

788 S 500 E, Pleasant Grove, UT 84062
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<https://aumictechlabs.com>

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.