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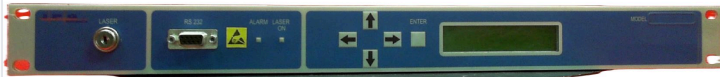
Data Sheet

August 15, 2026

IPG PHOTONICS

IPG PHOTONICS EAR-200-C3-W-L-MA

The IPG Photonics EAR-200-C3-W-L-MA is an Erbium-doped fiber amplifier (EDFA) engineered for industrial and laboratory applications demanding stable, linearly polarized optical amplification. Operating in continuous wave mode across the C-band, this compact EAR Series unit delivers efficient signal conditioning with minimal footprint and cooler-free pump operation for enhanced reliability. Optical Input: SMF-28 fiber with FC/PC, FC/SPC, or FC/APC connectors; 1-2 meter cable assemblies Aumictech offers NIST-traceable calibration and repair for the IPG Photonics EAR-200-C3-W-L-MA. Calibration covers gain at rated input power across the specified wavelength range, noise figure at rated gain setting, output power accuracy, gain flatness across the C-band or specified wavelength range, and polarization-dependent gain (PDG) where applicable. All calibrations ship with a NIST-traceable certifi



MODEL

**IPG Photonics
EAR-200-C3-W-L-
MA**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

**EAR-200-C3-W-L-
MA**

LISTING

[https://aumictechlabs.c
om/products/ear-200-c
3-w-l-ma-2/](https://aumictechlabs.com/products/ear-200-c3-w-l-ma-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The IPG Photonics EAR-200-C3-W-L-MA is an Erbium-doped fiber amplifier (EDFA) engineered for industrial and laboratory applications demanding stable, linearly polarized optical amplification. Operating in continuous wave mode across the C-band, this compact EAR Series unit delivers efficient signal conditioning with minimal footprint and cooler-free pump operation

for enhanced reliability. Technical Specifications Product Type: Erbium-doped Fiber Amplifier (EDFA) Series: EAR Series Operating Mode: Continuous Wave (CW) Operating Wavelength Range: 1533–1567 nm (C-band) Operating Bandwidth (FWHM): 10–20 nm (dependent on output power) Output Signal Polarization: Linear (LP) Input Power Range: –5 to +10 dBm Input Signal Linewidth: Greater than 1 GHz Relative Residual Pump Power: Less than –30 dB at input and output ports Optical Isolation: 25–30 dB input isolation; <–30 dB residual pump power Extinction Ratio: ~17–20 dB Output Power Stability: <1% over 8 hours (available as option) Operating Temperature: 0°C to +50°C Cooling: Cooler-free pump design Key Features Linearly polarized output suitable for polarization-sensitive applications Compact form factor for laboratory and OEM integration Minimal residual pump power at optical ports Low thermal load via pump-integrated design RS-232 remote control interface for system automation Optional output power stabilization to <1% over 8-hour periods Typical Applications Optical fiber communications signal conditioning Laboratory spectroscopy and optical testing Industrial fiber laser seed amplification Precision measurement systems requiring stable CW amplification Compatibility & Integration Optical Input: SMF-28 fiber with FC/PC, FC/SPC, or FC/APC connectors; 1–2 meter cable assemblies Optical Output: Bare fiber or collimated beam output (5 mm standard diameter) Control Interface: RS-232 rear-panel connection for computer control Mounting: Designed for direct integration into optical benches and system racks

EAR200C3WLMA Characteristics / Specifications

PARAMETER	VALUE
Model	EAR-200-C3-W-L-MA
Instrument Type	C-band erbium doped fiber amplifier
Family	IPG Photonics EAR series
Band	C-band (C3)
Port Power Class	up to 200 mW (plus 23 dBm) per port
Total Power Class	50 mW to 2 W family total output
Port Count Class	1, 2, 4, 8, 16 on 1RU EAR rows
Port Variation	plus or minus 0.5 dB maximum
Monitor Port	0 to 3 dBm
Wavelength	1550 to 1560 nm
Noise Figure	4.5 dB typical at Pin plus 6 dBm
Cnr Degradation	1.0 dB
Power Consumption	55 W (1RU RF-video row)
Residual Pump	minus 20 dBm/nm maximum
Cso	minus 75 dBc typical
Ctb	minus 80 dBc typical
Chassis	483 × 311 × 44 mm (1RU)
Operating Temperature	minus 10 C to plus 55 C standard; minus 40 C to plus 65 C extended
Storage Temperature	minus 40 C to plus 80 C
Booster Power	up to plus 33 dBm on EAR booster family
Pumps	cooler-free (no TEC) for reliability
Management	SNMP via RJ-45; RS-232 craft on booster family
Als	automatic line shutdown on fiber break (booster family)
Nebs	NEBS Level 1 design (booster family)
Manufacturer	IPG Photonics

PARAMETER	VALUE
Literature	IPG EAR series 1RU rack-mount EDFA and EAR booster family specifications; 200 mW C-band configurator EAR-200-C3-W-L-MA

EAR200C3WLMA Specifications

PARAMETER	VALUE
Applications	1550 nm CATV/FTTx optical distribution and C-band booster/preamp links using IPG EAR rack EDFAs.
Key Features	EAR-series C-band EDFA, 200 mW per-port class
Typical 4.5 dB noise figure at plus 6 dBm Pin	1RU 483 × 311 × 44 mm, cooler-free pumps
Technical Specifications	Model: EAR-200-C3-W-L-MA

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to plus 80 C
Operating temperature	minus 10 C to plus 55 C standard; minus 40 C to plus 65 C extended
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Booster Power	up to plus 33 dBm on EAR booster family
Pumps	cooler-free (no TEC) for reliability
Management	SNMP via RJ-45; RS-232 craft on booster family
Als	automatic line shutdown on fiber break (booster family)
Nebs	NEBS Level 1 design (booster family)
Manufacturer	IPG Photonics
Literature	IPG EAR series 1RU rack-mount EDFA and EAR booster family specifications; 200 mW C-band configurator EAR-200-C3-W-L-MA Notes From IPG EAR 1RU EDFA and EAR booster family tables. Per-port 200 mW / plus 23 dBm is the EAR-200 class; exact port count and MA suffix mapping belong on that unit's configuration label.

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	
Specifications	
PARAMETER	VALUE
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Instrument Type	C-band erbium doped fiber amplifier
Family	IPG Photonics EAR series
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Port Power Class	up to 200 mW (plus 23 dBm) per port
Total Power Class	50 mW to 2 W family total output
Port Count Class	1, 2, 4, 8, 16 on 1RU EAR rows
Port Variation	plus or minus 0.5 dB maximum
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Wavelength	1550 to 1560 nm
Noise Figure	4.5 dB typical at Pin plus 6 dBm
Cnr Degradation	1.0 dB
Power Consumption	55 W (1RU RF-video row)
Residual Pump	minus 20 dBm/nm maximum
Cso	minus 75 dBc typical
Ctb	minus 80 dBc typical
Chassis	483 x 311 x 44 mm (1RU)
Operating Temperature	minus 10 C to plus 55 C standard; minus 40 C to plus 65 C extended
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Management	SNMP via RJ-45; RS-232 craft on booster family
Als	automatic line shutdown on fiber break (booster family)
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Notes

From IPG EAR 1RU EDFA and EAR booster family tables. Per-port 200 mW / plus 23 dBm is the EAR-200 class; exact port count and MA suffix mapping belong on that unit's configuration label.

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
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.