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Data Sheet

August 14, 2026

ANRITSU

Anritsu CMA5000a – Optical Time Domain Reflectometers

Anritsu CMA5000a Optical Time Domain Reflectometer Platform The Anritsu CMA5000a is a modular OTDR/optical test platform for fiber installation and maintenance measurements. Fiber optic installation, manufacturing test, and optical lab measurements. Application Class: optical component and link test The Anritsu CMA5000a is a modular OTDR/optical test platform for fiber installation and maintenance measurements. Fiber optic installation, manufacturing test, and optical lab measurements. Application Class: optical component and link test Form Factor: benchtop or modular platform class



MODEL

**Anritsu
CMA5000a**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

CMA5000a

LISTING

<https://aumictechlabs.com/products/cma5000a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu CMA5000a is a modular optical time domain reflectometer (OTDR) platform for installation, commissioning, and maintenance of fiber optic networks. It delivers high-speed fiber characterization, fault identification, and automated reporting across long-haul backbone, Metro, CWDM, FTTx, and PON deployments. Technical Specifications Processor & Memory: Intel Celeron processor with 40 GB hard disk drive Display: 10.4-inch (26.7 cm) color XGA LCD touchscreen (1024 × 768) Storage Media: Built-in DVD/CD-R/W drive User Interface: Dual touchscreen and

hard key operation Operating System: Windows XP Pro SP2 Data Acquisition: Ultra-fast acquisition reaching 80% of dynamic range in under 30 seconds; real-time trace updates at 1/10 second intervals for splice optimization Trace Resolution: Up to 256,000 data points Distance Measurement Accuracy: $\pm 0.0025\%$ of distance measurement $\pm$ distance resolution $\pm$ index uncertainty Loss Measurement Accuracy (Linearity): ± 0.04 dB/dB Loss Resolution: 0.001 dB Laser Safety: IEC 60825-1:2007 Class 1, 21CFR1040.10 compliant Key Features Multi-wavelength Support: 850 nm, 1300 nm, 1310 nm, 1383 nm, 1410 nm, 1490 nm, 1550 nm, 1625 nm; up to four wavelengths combined into single optical port Dynamic Range: Up to 50 dB (approximately 250 km fiber testing) Distance Range: Up to 300 km Fiber Resolution: 1 meter minimum Dead Zones: Event dead zone 9 m (typical), Fresnel dead zone 4 m (typical), PON mode as low as 1 m Pulse Width Options: 5, 10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10000, 20000 ns Sampling Resolution: 0.125, 0.5, 1, 2, 4, 8, 16 m Index of Refraction Range: 1.300000 to 1.700000 Fiber Type: Single mode (8 μm to 10 μm) Operating Modes: Fault Locate, Classic OTDR, Construction, Networks Modular Architecture: Small, Medium, Large bay adapters for custom module configurations Reporting: Automated on-box PDF generation; SCPI command support for remote operation and automated testing Typical Applications Long-haul backbone networks, Metro deployments, CWDM systems, FTTx installations, PON network verification, splice optimization, fiber fault localization. Compatibility & Integration Modular design enables scaling and customization through interchangeable bay adapters.

CMA5000A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Optical test instrument
Model	CMA5000a
Manufacturer	Anritsu
Domain	fiber optics
Application Class	optical component and link test
Form Factor	benchtop or modular platform class
Use Stage	R&D manufacturing field
Calibration	OEM optical calibration
Connectors	industry fiber connectors via adapters
Display	optical parameter readout
Remote	GPIB or platform control class
Wavelength	telecom wavelength operation class
Dynamic Range	instrument/module dependent
Resolution	fine optical setting/measurement class
Accessories	fiber adapters jumpers
Documentation	Anritsu model manual
Environment	optical lab or field conditions per manual
Safety	observe optical power hazards
Maintenance	connector cleaning critical
Units	dB dBm nm class
Stability	allow warm up
Family	Anritsu optical instruments
Successor	later Anritsu optical platforms
Configuration Note	Identity from Anritsu CMA5000a OTDR product literature; expand module-specific dynamic range tables from OEM datasheet before denser upload.

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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Options: wavelength detector or OTDR modules class	
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PARAMETER	VALUE
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Notes

Identity from Anritsu CMA5000a OTDR product literature; expand module-specific dynamic range tables from OEM datasheet before denser upload.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.