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Data Sheet

August 13, 2026

ANRITSU

Anritsu CMA 5302 Optical Time Domain Reflectometers

Instrument Type: OTDR / Chromatic Dispersion module Alias: CMA5302; 5302 CDOTDR; CMA5000a CD OTDR module Platform: CMA5000 / CMA5000a multi-layer test platform CD measurement accuracy: 0.7 ps/nm or ± 4 percent Alias: CMA5302; 5302 CDOTDR; CMA5000a CD OTDR module Platform: CMA5000 / CMA5000a multi-layer test platform CD measurement accuracy: 0.7 ps/nm or ± 4 percent OTDR wavelengths: 1310 nm, 1550 nm, and 1625 nm



MODEL

Anritsu CMA 5302

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

CMA 5302

LISTING

<https://aumictechlabs.com/products/cma-5302-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu CMA 5302 is a modular Optical Time Domain Reflectometer (OTDR) with integrated chromatic dispersion measurement capability, designed for single-mode fiber characterization across extended distances. Operating at 1310 nm, 1550 nm, and 1625 nm, the CMA 5302 delivers 38 dB dynamic range with 0.001 dB loss resolution and $\pm 0.0025\%$ distance accuracy. The module integrates a power meter, light source, and OTDR function into a single instrument, enabling rapid fiber installation, maintenance, and fault location workflows. Technical Specifications

Wavelengths: 1310 nm ± 20 nm, 1550 nm ± 25 nm, 1625 nm ± 15 nm Dynamic Range: 38 dB at all three wavelengths Pulsethickness: 5 ns to 20 μ s (wavelength dependent) Distance Range: 5, 20, 50,

125, 250, 300 km Distance Resolution: 0.0001 km, 0.1 m, 1 ft, 0.0001 mi Distance Accuracy: $\pm 0.0025\%$ of distance measurement $\pm$ distance resolution $\pm$ index uncertainty Loss Resolution: 0.001 dB Data Points: Up to 256,000 Spectral Width (RMS): <15 nm Linearity: 0.04 dB/dB Initial Reflective Deadzone: 4 m (typical) Initial Non-Reflective Deadzone: 9 m at 1310 nm, 8 m at 1550 nm, 9 m at 1625 nm (typical) Chromatic Dispersion Range: 1310 nm through 1625 nm (37 dB typical dynamic range) CD Measurement Method: Time of flight (FOTP-168) Power Meter Range: +20 dBm Light Source Output: -7 dBm for single-mode fiber

Key Features Tri-wavelength OTDR with chromatic dispersion analysis Integrated power meter and light source Distance sampling: 0.125, 0.25, 0.5, 1, 2, 4, 8, 16 m (range dependent) Modular design for Anritsu CMA5000a mainframe (SBA, MBA, or LBA compatible) Connector adapters available: FC/UPC, SC/UPC, ST/UPC, FC/APC, SC/APC

Typical Applications Single-mode fiber installation and acceptance testing Fault location and cable loss characterization Dispersion profile measurement over long-distance links Field maintenance and troubleshooting of optical networks

Compatibility & Integration The CMA 5302 operates as a module within the Anritsu CMA5000a platform. Mainframe bay configuration (Small, Medium, or Large) determines form factor and available concurrent measurements.

Features & description

From manufacturer datasheet

Features

- Combined CD and OTDR in one single-bay module
- FOTP-168 compliant time-of-flight CD method
- Six-wavelength CD measurement set
- Complete 1310/1550/1625 nm OTDR capability
- Single-fiber testing (no loop required for CD)
- Fits SBA, MBA, or LBA CMA5000 platform bays
- Optional power meter and light source configurations (order codes)
- Universal connector adapters

UFC/USC/UST/AFC/ASC/AST class

Applications

- Chromatic dispersion characterization of installed SM fiber
- Zero-dispersion wavelength and dispersion-slope measurements
- 1310/1550/1625 nm OTDR fault locate and link loss testing
- Access, metro, and long-haul fiber commissioning
- CD mitigation/compensation planning for carriers

CMA5302 Characteristics / Specifications

PARAMETER	VALUE
Model	CMA 5302
Manufacturer	Anritsu
Instrument Type	OTDR / Chromatic Dispersion module
Alias	CMA5302; 5302 CDOTDR; CMA5000a CD OTDR module
Platform	CMA5000 / CMA5000a multi-layer test platform
Module form	single bay
Bay compatibility	SBA, MBA, or LBA
CD method	FOTP-168 time of flight
CD wavelengths	6 wavelengths
CD wavelength range	1310 nm to 1625 nm
CD dynamic range	37 dB (100 km)
CD measurement accuracy	0.7 ps/nm or ± 4 percent
OTDR wavelengths	1310 nm, 1550 nm, and 1625 nm
Fiber type	single mode 8 μ m to 10 μ m class
OTDR distance ranges class	5, 20, 50, 75, 125, 250, 300 km
OTDR sampling resolution class	0.125, 0.5, 1, 2, 4, 8, 16 m
OTDR sampling points	up to 256000
IOR settings	1.300000 to 1.700000
Distance measurement accuracy class	0.0025 percent of distance $\pm$ resolution $\pm$ index uncertainty
Loss measurement linearity class	± 0.04 dB/dB
Loss resolution class	0.001 dB
Order meter/source example	110 (+10 dBm) or 210 (+20 dBm) class codes Notes Specs from Anritsu CMA5000a CD-OTDR product pages and CMA5000a OTDR module datasheet common specifications. Exact OTDR dynamic range and deadzones depend on the OTDR hardware paired in the 5302 configuration; confirm faceplate/options.
Wavelength range	1310 nm to 1625 nm

PARAMETER	VALUE
Attenuation	for single-mode access and metro characterization.

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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Instrument Type	OTDR / Chromatic Dispersion module
Alias	CMA5302; 5302 CDOTDR; CMA5000a CD OTDR module
Platform	CMA5000 / CMA5000a multi-layer test platform
Module form	single bay
Bay compatibility	SBA, MBA, or LBA
CD method	FOTP-168 time of flight
CD wavelengths	6 wavelengths
CD wavelength range	1310 nm to 1625 nm
CD dynamic range	37 dB (100 km)
CD measurement accuracy	0.7 ps/nm or ±4 percent
OTDR wavelengths	1310 nm, 1550 nm, and 1625 nm
Fiber type	single mode 8 μm to 10 μm class
OTDR distance ranges class	5, 20, 50, 75, 125, 250, 300 km
OTDR sampling resolution class	0.125, 0.5, 1, 2, 4, 8, 16 m
OTDR sampling points	up to 256000
IOR settings	1.300000 to 1.700000
Distance measurement accuracy class	0.0025 percent of distance ± resolution ± index uncertainty
Loss measurement linearity class	±0.04 dB/dB
Loss resolution class	0.001 dB
Optional power meter detector: InGaAs	
Optional power meter wavelength range: 780 nm to 1800 nm	
Optional power meter calibrated wavelengths: 850, 1300, 1310, 1490, 1550, 1625 nm	
Optional standard power range: -55 to +10 dBm	
Optional CATV power range: -45 to +20 dBm	
Optional light source output: -8 dBm minimum class	
Optional light source stability at 23 C: ±0.2 dB over 8 hours	
Order meter/source example: 110 (+10 dBm) or 210 (+20 dBm) class codes	

Notes

Specs from Anritsu CMA5000a CD-OTDR product pages and CMA5000a OTDR module datasheet common specifications. Exact OTDR dynamic range and deadzones depend on the OTDR hardware paired in the 5302 configuration; confirm faceplate/options.

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 ·
30-day returns
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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.