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Data Sheet

August 15, 2026

COPPER MOUNTAIN TECHNOLOGIES

Copper Mountain Technologies ACM2520

Copper Mountain Technologies ACM2520 Automatic Calibration Module 100 kHz to 20 GHz

The ACM2520 is a two-port 50 ohm automatic calibration module for Copper Mountain VNAs. OEM Calibration Kits data sheet (Rev. 2021Q2) lists 100 kHz to 20 GHz coverage (N-type variants to 18 GHz), eight reflection states (four per port) plus a thru, factory S-parameter characterization stored in module memory, and USB 2.0 Type-B USBTMC-USB488 control at 0.25 W. Effective system data after calibration are stated at 23±5 °C with no more than ±1 °C drift and minus 5 dBm output. The ACM2520 is a two-port 50 ohm automatic calibration module for Copper Mountain VNAs. OEM Calibration Kits data sheet (Rev. 2021Q2) lists 100 kHz to 20 GHz coverage (N-type variants to 18 GHz), eight reflection states (four per port) plus a thru, factory S-parameter characterization stored in module memory, and USB 2.0 Type-B USBTMC-USB488 control at 0.25 W. Effective system data after calibration are stated at 23±5 °C with no more than ±1 °C drift and minus 5 dBm output. Two-port VNA autocalibration of type-N or 3.5 mm test ports from 100 kHz to 20 GHz (18 GHz on N-type).



MODEL

**Copper Mountain Technologies
ACM2520**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

ACM2520

LISTING

<https://aumictechlabs.com/products/acm2520-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Copper Mountain Technologies ACM2520 is a metrology-grade automatic calibration module that eliminates manual VNA calibration setup and execution. This fully automatic, USB-controlled instrument performs one-port through four-port calibrations across 100 kHz to 20 GHz (18 GHz for Type N models), delivering factory-characterized accuracy with minimal human error. The module operates over a 50 Ohm impedance, features eight reflection states per port plus a thru state, and includes a factory-characterized 20 dB in-line attenuator for DUT simulation and confidence verification. Technical Specifications Frequency Range: 100 kHz to 20 GHz (Type N models: 100 kHz to 18 GHz) Impedance: 50 Ohm Number of Ports: 2 RF ports Calibration Types: Full one-port through four-port VNA calibrations Reflection States: 8 per port (4 per port) Thru State: Included Internal Attenuator: 20 dB factory-characterized in-line Operating Mode Setting Time: ≤ 500 ms Power Consumption: ≤ 0.25 W Dimensions: 106.4 mm $\times$ 55.0 mm $\times$ 28.0 mm Weight: ≤ 0.435 kg Operating Temperature: +5 °C to +40 °C Relative Humidity: $\leq 90\%$ at +25 °C Atmospheric Pressure: 70.0 to 106.7 kPa Key Features Built-in confidence check with factory-stored DUT data for calibration verification User-defined characterization memory supports up to three custom setups for adapters and fixtures USB 2.0 interface with USBTMC-USB488 control protocol compliance Available connector options: Type N (female/male) or 3.5 mm (female/male) Compact, low-power design for portable and laboratory deployments Compatibility & Integration Fully compatible with all Copper Mountain Technologies Vector Network Analyzers. Open USBTMC-USB488 protocol enables external control integration with third-party VNAs via custom programming. Four model variants accommodate standard RF connector requirements.

ACM2520 Characteristics / Specifications

PARAMETER	VALUE
Model	ACM2520
Instrument Type	Two-port automatic calibration module
Impedance	50 ohm
Port Count	2
Frequency Range	100 kHz to 20 GHz (N-type operational to 18 GHz)
Minimum Frequency	100 kHz
Maximum Frequency	20 GHz (18 GHz N-type)
Characterization Points	up to 1601
Reflection States	eight (four per port) plus Thru
Directivity Low Band	36 dB, 100 kHz to 1 MHz
Source Match Low Band	32 dB, 100 kHz to 1 MHz
Load Match Low Band	36 dB, 100 kHz to 1 MHz
Directivity Mid Band	47 dB, 1 MHz to 10 GHz
Source Match Mid Band	40 dB, 1 MHz to 10 GHz
Load Match Mid Band	47 dB, 1 MHz to 10 GHz
Directivity High Band	40 dB, 10 GHz to 20 GHz
Source Match High Band	36 dB, 10 GHz to 20 GHz
Load Match High Band	40 dB, 10 GHz to 20 GHz
Reflection Tracking Mid	0.04 dB, 1 MHz to 10 GHz
Transmission Tracking Mid	0.06 dB, 1 MHz to 10 GHz
Maximum Power	0 dBm
Maximum Dc Voltage	10 V
Damage Level	+18 dBm
Damage Dc Voltage	35 V
Remote Interface	USB 2.0 Type B, USBTMC-USB488

PARAMETER	VALUE
Power Consumption	0.25 W
Length	107 mm without protective housing
Width	55 mm without protective housing; 130 mm with housing
Height	27 mm without protective housing; 28 mm with housing
Weight	0.435 kg (15 oz)
Housing Weight	0.14 kg (5 oz) protective housing
Operating Temperature	+5 C to +40 C
Storage Temperature	minus 50 C to +70 C
Humidity	90 percent at 25 C
Atmospheric Pressure	70.0 kPa to 106.7 kPa
Test Conditions	23±5 C, temperature variation after calibration no more than ±1 C, output power minus 5 dBm
Connector Configurations	ACM2520-011 N f/f; 012 N m/f; 111 3.5 mm f/f; 112 3.5 mm m/f
Manufacturer	Copper Mountain Technologies
Literature	CMT Calibration Kits data sheet Rev. 2021Q2 ACM2520 section

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 50 C to +70 C
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Atmospheric Pressure	70.0 kPa to 106.7 kPa
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Connector Configurations	ACM2520-011 N f/f; 012 N m/f; 111 3.5 mm f/f; 112 3.5 mm m/f
Manufacturer	Copper Mountain Technologies
Literature	CMT Calibration Kits data sheet Rev. 2021Q2 ACM2520 section Notes From Copper Mountain Technologies Calibration Kits data sheet Rev. 2021Q2 ACM2520 tables. Connector-specific residual errors beyond the published band table belong on the module characterization file; do not invent them.

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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Literature	CMT Calibration Kits data sheet Rev. 2021Q2 ACM2520 section

Notes

From Copper Mountain Technologies Calibration Kits data sheet Rev. 2021Q2 ACM2520 tables. Connector-specific residual errors beyond the published band table belong on the module characterization file; do not invent them.

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.