

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

ANRITSU

Anritsu ME4510B Digital Microwave System Analyzer

Anritsu ME4510B Digital Microwave System Analyzer enables precise digital signal analysis for microwave communication systems. It supports a wide variety of transmission formats, providing essential diagnostic capabilities for system development, quality assurance, and network maintenance applications.



MODEL Anritsu ME4510B	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU ME4510B	LISTING https://aumictechlabs.com/products/me4510b-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu ME4510B is a digital microwave system analyzer engineered for precise characterization of large-capacity digital microwave links and IF transmission systems. It delivers comprehensive signal analysis across 70 MHz and 140 MHz IF bands, measuring transmission band characteristics, amplitude linearity, propagation delay, and space diversity parameters. The instrument functions as both a dedicated analyzer and scalar network analyzer when transmitter and receiver are connected, supporting independent far-end measurements with a single instrument set.

Technical Specifications

IF Band Measurement

70 MHz IF band: ± 25 MHz

140 MHz IF band: ± 60 MHz

Input signal sweep width: $\pm (0.5 \text{ to } 25)$ MHz for 70 MHz band; $\pm (0.2 \text{ to } 60)$ MHz for 140 MHz band

Amplitude Measurement

Measurement range: 0 to 40 dB

Level display

accuracy: ± 0.5 dB at 70/140 MHz, 0 dBm Amplitude characteristics resolution: 0.01 dB minimum
Delay Measurement Delay range: 0 to 400 ns Delay characteristics resolution: 0.01 ns minimum
Space diversity propagation delay difference: -200 ns to +200 ns Return Loss Measurement
Range: 10 to 50 dB Impedance: 75 Ω Return loss at 0 dBm output: ≥ 26 dB (10 to 200 MHz); ≥ 20
dB (200 to 300 MHz) Spectrum Analysis Frequency range: 10 kHz to 300 MHz Spectrum
amplitude: -110 to +20 dBm Video bandwidth: 100 Hz to 300 kHz Transmitter Frequency range: 45
to 200 MHz Output level: -50 to +10 dBm IM3 output level: -60 to +0 dBm Output impedance: 75
 Ω Harmonics: ≤ -30 dB (10 to 200 MHz); ≤ -26 dB (200 to 300 MHz) Four-tone signal output for
third-order intermodulation distortion measurements Receiver IF input level: -30 to +20 dBm; -60
to -20 dBm auxiliaryKey Features Automatic input level range, CRT scale sensitivity, and trace
position adjustment IF spectrum measurement and analysis Independent transmitter and receiver
operation for far-end measurements Optional IF Return Loss Bridge accessory
(MA2510A/B)Typical Applications Digital microwave link characterization and validation IF
transmission band analysis Space diversity route propagation delay evaluation Intermodulation
distortion testing Network maintenance and quality assurance

Features & description

From manufacturer datasheet

Technical Specifications

70 MHz IF band: ± 25 MHz 140 MHz IF band: ± 60 MHz Input signal sweep width: $\pm(0.5$ to 25) MHz for 70 MHz band; $\pm(0.2$ to 60) MHz for 140 MHz band Amplitude Measurement Measurement range: 0 to 40 dB Level display accuracy: ± 0.5 dB at 70/140 MHz, 0 dBm Amplitude characteristics resolution: 0.01 dB minimum Delay Measurement Delay range: 0 to 400 ns Delay characteristics resolution: 0.01 ns minimum Space diversity propagation delay difference: -200 ns to $+200$ ns Return Loss Measurement Range: 10 to 50 dB Impedance: $75\ \Omega$ Return loss at 0 dBm output: ≥ 26 dB (10 to 200 MHz); ≥ 20 dB (200 to 300 MHz) Spectrum Analysis Frequency range: 10 kHz to 300 MHz Spectrum amplitude: -110 to $+20$ dBm Video bandwidth: 100 Hz to 300 kHz Transmitter Frequency range: 45 to 200 MHz Output level: -50 to $+10$ dBm IM3 output level: -60 to $+0$ dBm Output impedance: $75\ \Omega$ Harmonics: ≤ -30 dB (10 to 200 MHz); ≤ -26 dB (200 to 300 MHz) Four-tone signal output for third-order intermodulation distortion measurements Receiver IF input level: -30 to $+20$ dBm; -60 to -20 dBm auxiliary

Key Features

Automatic input level range, CRT scale sensitivity, and trace position adjustment IF spectrum measurement and analysis Independent transmitter and receiver operation for far-end measurements Optional IF Return Loss Bridge accessory (MA2510A/B)

Specifications

Parameter	Value
Frequency Range	10 kHz to 300 MHz (spectrum analysis) 10 kHz to 300 MHz (IF band support via 70 MHz ± 25 MHz and 140 MHz ± 60 MHz) Power Range (dBm) -110 to $+20$ dBm (spectrum amplitude)

Anritsu ME4510B — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the Anritsu ME4510B. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values [Request Calibration](#) → [Request Repair Quote](#) →

Anritsu ME4510B price

This Anritsu ME4510B is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

Anritsu ME4510B calibration cost

NIST-traceable calibration for the Anritsu ME4510B is (standard — pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented, traceability chain

included). Turnaround is 1 to 3 business days after receipt. See full calibration details →

Applications

Digital microwave link characterization and validation IF transmission band analysis Space diversity route propagation delay evaluation Intermodulation distortion testing Network maintenance and quality assurance

Unit notes

The Anritsu ME4510B is a digital microwave system analyzer engineered for precise characterization of large-capacity digital microwave links and IF transmission systems. It delivers comprehensive signal analysis across 70 MHz and 140 MHz IF bands, measuring transmission band characteristics, amplitude linearity, propagation delay, and space diversity parameters. The instrument functions as both a dedicated analyzer and scalar network analyzer when transmitter and receiver are connected, supporting independent far-end measurements with a single instrument set.

Technical Specifications

IF Band Measurement 70 MHz IF band: ± 25 MHz 140 MHz IF band: ± 60 MHz Input signal sweep width: $\pm (0.5 \text{ to } 25)$ MHz for 70 MHz band; $\pm (0.2 \text{ to } 60)$ MHz for 140 MHz band

Amplitude Measurement Measurement range: 0 to 40 dB Level display accuracy: ± 0.5 dB at 70/140 MHz, 0 dBm Amplitude characteristics resolution: 0.01 dB minimum

Delay Measurement Delay range: 0 to 400 ns Delay characteristics resolution: 0.01 ns minimum

Space diversity propagation delay difference: -200 ns to $+200$ ns

Return Loss Measurement Range: 10 to 50 dB Impedance: 75Ω Return loss at 0 dBm output: ≥ 26 dB (10 to 200 MHz); ≥ 20 dB (200 to 300 MHz)

Spectrum Analysis Frequency range: 10 kHz to 300 MHz Spectrum amplitude: -110 to $+20$ dBm Video bandwidth: 100 Hz to 300 kHz

Transmitter Frequency range: 45 to 200 MHz Output level: -50 to $+10$ dBm IM3 output level: -60 to $+0$ dBm Output impedance: 75Ω Harmonics: ≤ -30 dB (10 to 200 MHz); ≤ -26 dB

ME4510B Specifications

PARAMETER	VALUE
Frequency Range	10 kHz to 300 MHz (spectrum analysis)
10 kHz to 300 MHz (IF band support via 70 MHz ±25 MHz and 140 MHz ±60 MHz) Power Range (dBm)	–110 to +20 dBm (spectrum amplitude)

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.

Anritsu ME4510B Digital Microwave System Analyzer enables precise digital signal analysis for microwave communication systems. It supports a wide variety of transmission formats, providing essential diagnostic capabilities for system development, quality assurance, and network maintenance applications.

The Anritsu ME4510B is a digital microwave system analyzer engineered for precise characterization of large-capacity digital microwave links and IF transmission systems. It delivers comprehensive signal analysis across 70 MHz and 140 MHz IF bands, measuring transmission band characteristics, amplitude linearity, propagation delay, and space diversity parameters. The instrument functions as both a dedicated analyzer and scalar network analyzer when transmitter and receiver are connected, supporting independent far-end measurements with a single instrument set.

Aumictech offers NIST-traceable calibration and repair for the Anritsu ME4510B. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1-3 business days after receipt.

This Anritsu ME4510B is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

ME4510B Specifications

PARAMETER	VALUE
Frequency Range	10 kHz to 300 MHz (spectrum analysis)
10 kHz to 300 MHz (IF band support via 70 MHz ±25 MHz and 140 MHz ±60 MHz) Power Range (dBm)	-110 to +20 dBm (spectrum amplitude)

Technical Specifications

70 MHz IF band: ±25 MHz 140 MHz IF band: ±60 MHz Input signal sweep width: ±(0.5 to 25) MHz for 70 MHz band; ±(0.2 to 60) MHz for 140 MHz band Amplitude Measurement Measurement range: 0 to 40 dB Level display accuracy: ±0.5 dB at 70/140 MHz, 0 dBm Amplitude characteristics resolution: 0.01 dB minimum Delay Measurement Delay range: 0 to 400 ns Delay characteristics resolution: 0.01 ns minimum Space diversity propagation delay difference: -200 ns to +200 ns Return Loss Measurement Range: 10 to 50 dB Impedance: 75 Ω Return loss at 0 dBm output: ≥26 dB (10 to 200 MHz); ≥20 dB (200 to 300 MHz) Spectrum Analysis Frequency range: 10 kHz to 300 MHz Spectrum amplitude: -110 to +20 dBm Video bandwidth: 100 Hz to 300 kHz Transmitter Frequency range: 45 to 200 MHz Output level: -50 to +10 dBm IM3 output level: -60 to +0 dBm Output impedance: 75 Ω Harmonics: ≤-30 dB (10 to 200 MHz); ≤-26 dB (200 to 300 MHz) Four-tone signal output for third-order intermodulation distortion measurements Receiver IF input level: -30 to +20 dBm; -60 to -20 dBm auxiliary

Key Features

Automatic input level range, CRT scale sensitivity, and trace position adjustment IF spectrum measurement and analysis Independent transmitter and receiver operation for far-end measurements Optional IF Return Loss Bridge accessory (MA2510A/B)

Specifications

Parameter	Value
Frequency Range	10 kHz to 300 MHz (spectrum analysis)
10 kHz to 300 MHz (IF band support via 70 MHz ±25 MHz and 140 MHz ±60 MHz) Power Range (dBm)	-110 to +20 dBm (spectrum amplitude)

Anritsu ME4510B – Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the Anritsu ME4510B. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1-3 business days after receipt.

Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values

Request Calibration → Request Repair Quote →

Anritsu ME4510B price

This Anritsu ME4510B is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

Anritsu ME4510B calibration cost

NIST-traceable calibration for the Anritsu ME4510B is (standard – pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented, traceability chain included). Turnaround is 1 to 3 business days after receipt. See full calibration details →

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>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 12, 2026

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