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Data Sheet

August 14, 2026

ADVANTEST

Advantest R3860 – RF component analyzer

Advantest R3860 RF Component Analyzer 300 kHz to 8/20 GHz The Advantest R3860 queue listing is the R3860A RF component analyzer family. OEM R3860A catalog covers 300 kHz to 8/20 GHz, 5 us/point, 2 to 4 ports, and 125 dB typical dynamic range in the 424 × 266 × 530 mm package. Same multiport RF module characterization as R3860A; confirm faceplate R3860 versus R3860A. RF component analyzer 300 kHz to 20 GHz class The Advantest R3860 queue listing is the R3860A RF component analyzer family. OEM R3860A catalog covers 300 kHz to 8/20 GHz, 5 us/point, 2 to 4 ports, and 125 dB typical dynamic range in the 424 × 266 × 530 mm package. Same multiport RF module characterization as R3860A; confirm faceplate R3860 versus R3860A. RF component analyzer 300 kHz to 20 GHz class Dimensions: approx 424 W x 266 H x 530 D mm



MODEL

Advantest R3860

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

R3860

LISTING

<https://aumictechlabs.com/products/r3860-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Advantest R3860 is an RF component analyzer engineered for precise testing and characterization of radio frequency components across development and manufacturing stages. It delivers multi-port measurement capability, advanced S-parameter analysis, and time-domain functions within a compact platform. Technical Specifications Frequency Coverage Standard operation spans 300 kHz to 8 GHz. Optional application software extends capability to 20 GHz. Frequency accuracy is ± 10 ppm ($23 \pm 5^\circ\text{C}$) with 1 Hz resolution. Measurement

PerformanceDynamic range reaches 125 dB typical, with trace noise at 0.0025 dBrms (300 kHz to 10 MHz, RBW 1 kHz). System directivity ranges from 12 dB to 23 dB; cross talk achieves 120 dB (700 MHz to 4 GHz). Maximum input level is +10 dBm. Signal SourceOutput power spans -12 dBm to +13 dBm across the 8 GHz band (frequency-dependent). Electronic formula output extends range to -74 dBm to +6 dB (300 kHz to 0.5 GHz). Output resolution is 0.001 dB. Sweep speed reaches 10 μ s/point. Port Configuration & Device SupportFour integrated test ports support balanced multi-port devices and front-end modules. External test adapters expand port count to twelve. Supports 2-port, 3-port, and 4-port S-parameter measurements (S_{11} , S_{21} , S_{12} , S_{22} and extended parameters). Calibration & Error CorrectionOffered modes include normalize, 1-port, 2-port, and 3-port calibration. Analysis FunctionsImpedance conversion (Z and Y parameters), fixture circuit elimination, matching network analysis, balanced level measurement, and time-domain analysis.

Key Features 12.1-inch SVGA TFT color touchscreen display Up to 16 split windows for simultaneous result visualization Multi-marker capability with search and function assignment (up to 16 markers) Limit line setup for PASS/FAIL testing (up to 32 segments)Typical Applications RF component validation, balanced device characterization, front-end module testing, impedance and matching network analysis, fixture de-embedding.

R3860 Characteristics / Specifications

PARAMETER	VALUE
Model	R3860 family R3860A
Dimensions	approx 424 W x 266 H x 530 D mm
Mass	32 kg or less
Frequency Range 8 GHz Model	300 kHz to 8 GHz
Frequency Range 20 GHz Model	300 kHz to 20 GHz
Frequency Setup Resolution	1 Hz
Sweep Time	5 us per point at RBW 400 kHz
Sweep Points	3 to 1601
Sweep Types	linear log program power
Measurement Channels	16
Traces Per Channel	16
Built In Test Ports	2 3 or 4 port options
System Dynamic Range Typical	125 dB average 8 times RBW 10 Hz after isolation cal
Trace Noise Typical	0.0025 dBrms
Output Power Peak Catalog	plus 13 dBm
Output 8 GHz Two Port 0.5 to 4 GHz	minus 7 dBm to plus 13 dBm
Output 8 GHz Two Port 6 to 8 GHz	minus 12 dBm to plus 8 dBm
Output 20 GHz Two Port 15 to 20 GHz	minus 22 dBm to minus 2 dBm
Test Port Connector 8 GHz	N female
Test Port Connector 20 GHz	3.5 mm male
Destructive Input	plus 21 dBm 16 Vdc
External Reference	1 2 5 10 MHz plus or minus 10 ppm 0 dBm 50 ohm
Probe Power	plus or minus 15 V plus or minus 0.5 V 300 mA
LAN	10 Base-T
Printer	IEEE 1284

PARAMETER	VALUE
Operating Temperature	plus 5 to plus 40 C 80 percent RH or less
Storage Temperature	minus 20 to plus 60 C
Power Consumption	500 VA or less
Line Power	100 to 120 VAC and 220 to 240 VAC auto 50/60 Hz

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 20 to plus 60 C
Operating temperature	plus 5 to plus 40 C 80 percent RH or less
Operating Temperature	plus 5 to plus 40 C 80 percent RH or less
Power Consumption	500 VA or less
Line Power	100 to 120 VAC and 220 to 240 VAC auto 50/60 Hz Notes From Advantest R3860A catalog applied to queue model R3860 in the same RF component analyzer line.

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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Printer	IEEE 1284
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Storage Temperature	minus 20 to plus 60 C
Power Consumption	500 VA or less
Line Power	100 to 120 VAC and 220 to 240 VAC auto 50/60 Hz

Notes
From Advantest R3860A catalog applied to queue model R3860 in the same RF component analyzer line.

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
NAICS 423690 · 811210 · 541380
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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.