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Data Sheet

August 13, 2026

ADVANTEST

Advantest R3760 Network Analyzer, 300 MHz to 6 GHz

Advantest R3760 Board Network Analyzer 300 MHz to 6 GHz The Advantest R3760 isaPCI board vector network analyzer covering 300 MHz to 6 GHz for reflection (S11) and transmission (S21) measurements of antennas and filters used in wireless communications. Compact half-size dual-slot PCI design with less than 20 W consumption supports multi-board parallel production test. The Advantest R3760 isaPCI board vector network analyzer covering 300 MHz to 6 GHz for reflection (S11) and transmission (S21) measurements of antennas and filters used in wireless communications. Compact half-size dual-slot PCI design with less than 20 W consumption supports multi-board parallel production test.



MODEL

Advantest R3760

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

R3760

LISTING

<https://aumictechlabs.com/products/r3760-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Advantest R3760 is a board-based network analyzer spanning 300 MHz to 6 GHz, designed for PC integration via PCI slot installation. It delivers four-channel S-parameter measurements - reflection (S11) and transmission (S21) - with calibration options including 1-port and transmission full calibration. The instrument combines compact form factor, low power consumption under 20 W, and flexible test port configuration through SMA 50Ω connectors to serve RF component characterization across telecommunications and wireless applications. Technical Specifications

Measurement Capability Frequency range: 300 MHz to 6 GHz Measurement channels: 4 S-parameters: S11 (reflection), S21 (transmission) Frequency resolution: 10 kHz Measurement points: Maximum 1601 per segment Sweep speed: Maximum 50 μ sec/point (RBW 15 kHz) Signal Source Frequency accuracy: ± 50 ppm (± 1 ppm with OPT.20) Output level: 0 dBm to -10 dBm (≤ 3 GHz) Insertion loss: <4.0 dB (500 MHz–3 GHz); <5.5 dB (3–6 GHz) Arbitrary sweep with configurable frequency, output level, RBW, points, and settling time Receiver Input connector: SMA (female) 50 Ω Average noise level: -70 dBm (RBW 1 kHz) Resolution bandwidth: 10 Hz to 15 kHz (1, 1.5, 2, 3, 4, 5, or 7 step increments) Physical & Power Form factor: PCI half-size board, 2 slots Dimensions: 190 mm (W) $\times$ 126 mm (H) $\times$ 20 mm (D) Mass: ≤ 1 kg Power consumption: <20 W (typical: +5 VDC 5W, +3.3 VDC 5W, +12 VDC 1W, -12 VDC 1W) Key Features Error correction: Normalize, transmission full calibration, 1-port full calibration Parallel I/O interface: 8-bit output (C-MOS), 4-bit input (C-MOS) Operating temperature: Ambient $\leq +55^{\circ}\text{C}$ at expansion slot location Typical Applications Wireless component and module evaluation; antenna and filter characterization; WiMAX and WiFi subsystem testing; telecommunications RF assessment. Compatibility & Integration Windows 10 Pro (64-bit) and Windows 11; Visual Basic and C++ development environments; direct PC expansion slot installation eliminates external instrumentation requirements.

Features & description

From manufacturer datasheet

Features

- Frequency coverage 300 MHz to 6 GHz S11 and S21
- 4 measurement channels
- Maximum 1601 points per segment
- Sweep speed maximum 300 usec per point
- 1-Port Full Cal Normalize and Trans Full Cal
- PCI half size 2 slot board under 20 W

Applications

- Antenna impedance and return loss 300 MHz to 6 GHz
- Filter transmission and reflection production test
- WiFi WiMAX cellular ETC and RFID antenna evaluation
- PC based multi-unit parallel RF component test

R3760 Characteristics / Specifications

PARAMETER	VALUE
Model	R3760
Manufacturer	Advantest
Instrument Type	Board Network Analyzer
Alias	R3760; Advantest R3760
Frequency range S11 S	300 MHz to 6 GHz
Frequency resolution	10 kHz
Frequency accuracy	plus or minus 50 ppm
Frequency accuracy Option	plus or minus 1 ppm stability
Output level less than or equal 3 GHz	0 to -10 dBm
Output level greater than 3 GHz	-5 to -10 dBm
Output level resolution	0.1 dB
Measurement parameters	Reflection S11; Transmission S21
Measurement channels	4
Measurement points maximum	1601 per segment
Sweep speed maximum	300 usec per point
Average noise level	-70 dBm at RBW 1 kHz
Resolution bandwidth	10 Hz to 15 kHz
Error correction	1-Port Full Cal; Normalize; Trans Full Cal
Output port	SMA female 50 ohm
Input port	SMA female 50 ohm
ParallelIO	8 bit output C-MOS; 4 bit input C-MOS
Power consumption	20 W or less
External dimensions	approx 190 mmWx 126 mmHx 42 mmDMass: 1 kg or less
Host PC	two PCI slots 32 bit 5 V half size
Related low band board	R3755A 10 kHz to 300 MHz

PARAMETER	VALUE
Publication	Advantest R3755A/R3760 catalog R3755A/3760-5E Notes Specs from Advantest R3755A/R3760 board network analyzer catalog. Confirm Option 20 frequency stability and accessory adapters A170009/A170010 on the system.
Bandwidth	10 Hz to 15 kHz
Return loss	300 MHz to 6 GHz - Filter transmission and reflection production test - WiFi WiMAX cellular ETC and RFID antenna evaluation - PC based multi-unit parallel RF component test

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	
Specifications	
PARAMETER	VALUE
Output level greater than 3 GHz	-5 to -10 dBm
Output level resolution	0.1 dB
Measurement parameters	Reflection S11; Transmission S21
Measurement channels	4
Measurement points maximum	1601 per segment
Sweep speed maximum	300 usec per point
Average noise level	-70 dBm at RBW 1 kHz
Resolution bandwidth	10 Hz to 15 kHz
Error correction	1-Port Full Cal; Normalize; Trans Full Cal
Output port	SMA female 50 ohm
Input port	SMA female 50 ohm
Parallel I O	8 bit output C-MOS; 4 bit input C-MOS
Power consumption	20 W or less
External dimensions	approx 190 mm W x 126 mm H x 42 mm D
Mass	1 kg or less
Host PC	two PCI slots 32 bit 5 V half size
Related low band board	R3755A 10 kHz to 300 MHz
Specifications	
PARAMETER	VALUE
Model	R3760
Manufacturer	Advantest
Instrument Type	Board Network Analyzer
Alias	R3760; Advantest R3760
Frequency range S11 S21	300 MHz to 6 GHz
Frequency resolution	10 kHz

PARAMETER	VALUE
Frequency accuracy	plus or minus 50 ppm
Frequency accuracy Option 20	plus or minus 1 ppm stability

Output level less than or equal 3 GHz: 0 to -10 dBm

Specifications

PARAMETER	VALUE
Output level greater than 3 GHz	-5 to -10 dBm
Output level resolution	0.1 dB
Measurement parameters	Reflection S11; Transmission S21
Measurement channels	4
Measurement points maximum	1601 per segment
Sweep speed maximum	300 usec per point
Average noise level	-70 dBm at RBW 1 kHz
Resolution bandwidth	10 Hz to 15 kHz
Error correction	1-Port Full Cal; Normalize; Trans Full Cal
Output port	SMA female 50 ohm
Input port	SMA female 50 ohm
ParallelIO	8 bit output C-MOS; 4 bit input C-MOS
Power consumption	20 W or less
External dimensions	approx 190 mmWx 126 mmHx 42 mmDMass: 1 kg or less
Host PC	two PCI slots 32 bit 5 V half size
Related low band board	R3755A 10 kHz to 300 MHz

Optional 4 port adapter: A170009
Optional forward reverse adapter: A170010
Publication: Advantest R3755A/R3760 catalog R3755A/3760-5E

Notes
Specs from Advantest R3755A/R3760 board network analyzer catalog. Confirm Option 20 frequency stability and accessory adapters A170009/A170010 on the system.

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 ·
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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.