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Data Sheet

August 15, 2026

ADVANTEST

Advantest R3765BH 40MHz – 8.0GHz, Built-in SWR Bridge Network Analyzer

Advantest R3765BH Vector Network Analyzer 40 MHz to 8.0 GHz The Advantest R3765BH isatransmission/reflection network analyzer with built-in SWR bridge covering 40 MHz to 8.0 GHz. OEM R3765/R3767 family tables list 1 Hz source resolution, 100 dB dynamic range class, 0.5 dB output accuracy, 0.15 ms/point normalized sweep, and 8.4 inch TFT multi-trace display. RF and microwave component amplitude phase group-delay and impedance characterization with built-in reflection bridge. Built-in SWR bridge for reflection measurements The Advantest R3765BH isatransmission/reflection network analyzer with built-in SWR bridge covering 40 MHz to 8.0 GHz. OEM R3765/R3767 family tables list 1 Hz source resolution, 100 dB dynamic range class, 0.5 dB output accuracy, 0.15 ms/point normalized sweep, and 8.4 inch TFT multi-trace display. RF and microwave component amplitude phase group-delay and impedance characterization with built-in reflection bridge. Built-in SWR bridge for reflection measurements Four channels supporting eight simultaneous traces



MODEL

**Advantest
R3765BH**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

R3765BH

LISTING

<https://aumictechlabs.com/products/r3765bh-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Advantest R3765BH is a network analyzer engineered for precision impedance matching and high-frequency reflection measurements across 40 MHz to 8.0 GHz. A built-in SWR bridge enables efficient characterization of RF and microwave components, while simultaneous 8-trace capability on a full-color TFT display accelerates design validation and production testing. The instrument measures amplitude, phase, group delay, and impedance with 100 dB dynamic range and 0.5 dB output accuracy. Sweep speeds reach 0.15 ms/point with normalized calibration or 0.25 ms/point under 2-port full calibration, supporting rapid data acquisition in laboratory and manufacturing environments.

Technical Specifications

Frequency Range: 40 MHz to 8.0 GHz
Dynamic Range: 100 dB
Output Accuracy: 0.5 dB
Sweep Speed: 0.15 ms/point (normalized calibration) or 0.25 ms/point (2-port full calibration)
Measurement Parameters: Amplitude, phase, group delay, and impedance
Display: Full-color TFT screen
Channels: 4 channels supporting 8 simultaneous traces
Test Set Configuration: Transmission/Reflection
Power Consumption: 250 VA or less
Dimensions: 424 mm (W) × 220 mm (H) × 400 mm (D)
Weight: 18.5 kg or less
Operating Temperature: +5 to +40°C
Operating Humidity: 80% or less (non-condensing)

Key Features

Built-in SWR bridge for reflection measurements
2-port full calibration support
BASIC controller function integrated as standard
Programmable limit lines for pass/fail testing
Electronic output attenuator (optional)
Software fixture function for impedance normalization other than 50 Ω (optional)
Multi-port device measurement capability with optional 3-port or 4-port test sets

Typical Applications

RF and microwave component characterization
Impedance matching and filter design
Transmission line analysis
Wireless communication device validation
Production test and quality assurance

Compatibility & Integration

GPIB, parallel, serial, printer, and keyboard ports enable automated measurement control and external system integration. External reference frequency input and probe power output support specialized measurement configurations.

Features & description

From manufacturer datasheet

Built-in SWR bridge for reflection measurements

Four channels supporting eight simultaneous traces Electronic attenuator and limit lines

Built-in BASIC controller

Optional 3/4 port device measurement capability Technical Specifications Model: R3765BH Instrument Type: Vector network analyzer with built-in SWR bridge Frequency Range: 40 MHz to 8.0 GHz Source Frequency Resolution: 1 Hz Source Frequency Accuracy: 0.002 percent Output Accuracy: 0.5 dB Power Resolution: 0.01 dB Output Impedance: 50 Ohm Maximum Dynamic Range: 100 dB Sweep Speed Normalized: 0.15 ms per point Sweep Speed 2 Port Full Cal: 0.25 ms per point Receiver Channels: 1 ch class T-R parameter set Displayed Average Noise Floor Class: -100 dBm to -90 dBc family table Maximum Input Level Class: 0 dBm Test Port Connector: TypeNfemale 50 Ohm Measurement Parameters: amplitude, phase, group delay, impedance Display: full-color TFT Trace Capacity: 8 simultaneous traces on 4 channels Power Consumption: 250 VA or less Dimensions WxHxD: 424 × 220 × 400 mm Mass: 18.5 kg or less Operating Temperature: +5 to +40 C Operating Humidity: 80 percent or less non-condensing Line Power: 100 to 120 Vac and 220 to 240 Vac 50/60 Hz Test Set Configuration: transmission reflection Integral Signal Source: yes Notes From Advantest R3765/R3767 family specification tables for the 40 MHz to 8.0 GHz built-in SWR bridge models including R3765BH/R3767B published characteristics. Same architecture as R3767B performance characteristics sheets.

R3765BH Characteristics / Specifications

PARAMETER	VALUE
Model	R3765BH
Instrument Type	Vector network analyzer with built-in SWR bridge
Frequency Range	40 MHz to 8.0 GHz
Source Frequency Resolution	1 Hz
Source Frequency Accuracy	0.002 percent
Output Accuracy	0.5 dB
Power Resolution	0.01 dB
Output Impedance	50 Ohm
Maximum Dynamic Range	100 dB
Sweep Speed Normalized	0.15 ms per point
Sweep Speed 2 Port Full Cal	0.25 ms per point
Receiver Channels	1 ch class T-R parameter set
Displayed Average Noise Floor Class	-100 dBm to -90 dBc family table
Maximum Input Level Class	0 dBm
Test Port Connector	TypeNfemale 50 Ohm
Measurement Parameters	amplitude, phase, group delay, impedance
Display	full-color TFT
Trace Capacity	8 simultaneous traces on 4 channels
Power Consumption	250 VA or less
Dimensions WxHxD	424 × 220 × 400 mm
Mass	18.5 kg or less
Operating Temperature	+5 to +40 C
Operating Humidity	80 percent or less non-condensing
Line Power	100 to 120 Vac and 220 to 240 Vac 50/60 Hz
Test Set Configuration	transmission reflection

PARAMETER	VALUE
Integral Signal Source	yes
Humidity	80 percent or less non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	+5 to +40 C
Operating Temperature	+5 to +40 C
Humidity	80 percent or less non-condensing
Operating Humidity	80 percent or less non-condensing
Line Power	100 to 120 Vac and 220 to 240 Vac 50/60 Hz
Test Set Configuration	transmission reflection
Integral Signal Source	yes Notes From Advantest R3765/R3767 family specification tables for the 40 MHz to 8.0 GHz built-in SWR bridge models including R3765BH/R3767B published characteristics. Same architecture as R3767B performance characteristics sheets.

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
Model	R3765BH
Instrument Type	Vector network analyzer with built-in SWR bridge
Frequency Range	40 MHz to 8.0 GHz
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Maximum Input Level Class	0 dBm
Test Port Connector	TypeNfemale 50 Ohm
Measurement Parameters	amplitude, phase, group delay, impedance
Display	full-color TFT
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Line Power	100 to 120 Vac and 220 to 240 Vac 50/60 Hz
Test Set Configuration	transmission reflection
Integral Signal Source	yes

Notes

From Advantest R3765/R3767 family specification tables for the 40 MHz to 8.0 GHz built-in SWR bridge models including R3765BH/R3767B published characteristics. Same architecture as R3767B performance characteristics sheets.

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.