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Data Sheet
August 14, 2026

ADVANTEST

Advantest R3765AG/R3765BG/R3765CG â€“ Network analyzer

Advantest R3765AG/R3765BG/R3765CG,High-performance network analyzers offering broad frequency coverage and precise measurements. Ideal for component, circuit, and system testing with excellent dynamic range and measurement speed. Suitable for R&D and production environments where accuracy and speed are essential. Designed with user-friendly interfaces and solid test capabilities across various RF applications.

MODEL	CALIBRATION
Advantest R3765AG/R3765BG/R3765CG	Available on request
CONDITION	**STATUS**
Used	In stock
RFQ / SKU	**LISTING**
R3765AG/R3765BG/R3765CG	https://aumictechlabs.com/products/r3765ag-r3765bg-r3765cg-2/

NIST-traceable cal · SAM registered · 30-day returns · NAICS 423690 · 811210 · 541380

This unit

The Advantest R3765AG/R3765BG/R3765CG are network analyzers for precise RF component, circuit, and system characterization from 300 kHz to 3.8 GHz. These instruments deliver 100 dB dynamic range and ±0.5 dB output accuracy, enabling fast, reliable measurements in both R&D and production environments. Measurement speed reaches 0.15 ms per point with 2-port full calibration.The 8.4-inch color TFT display supports four-window splitting for simultaneous observation of up to eight parameters across multiple signal paths.Technical Specifications Frequency Range: 300 kHz to 3.8 GHz Dynamic Range: 100 dB Output Accuracy: ±0.5 dB (at 50

MHz, -1 dBm, 23°C ±5°C) Measurement Speed: 0.15 ms per point (2-port full calibration) Output Power Resolution: 0.01 dB Display: 8.4-inch color TFT with four-window capability Receiver Connectors: N-type female (Nf)Key Features Variable output power by model: +17 to -3 dBm (R3765AG), +7 to -13 dBm (R3765BG), +10 to -10 dBm (R3765CG) Built-in bridge transmission/reflection characteristic measurement Integrated 2-port S-parameter test set for forward and reverse measurements Optional 3-port and 4-port test sets for multi-port device characterization Software fixture function for non-50 Ω impedance normalization without external converters BASIC controller for automated measurement sequences CDMA IF filter analysis function Multiple measurement formats: rectangular (A/R, B/R), impedance (Z), admittance (Y), polar, Smith chart, R+jX, G+jB Limit line functionality Enhanced sweep and register save/recall functionsTypical Applications RF component testing and validation Circuit characterization and troubleshooting System-level RF measurements S-parameter acquisition across multiple ports CDMA filter performance analysis Production test environments requiring high-speed throughputCompatibility & Integration Operates at altitudes up to 2000 m Installation Category II rated Pollution Degree 2 environment rated Requires corrosive-gas-free, dust-free environments free from direct sunlight

R3765AGR3765BGR3765CG Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	Advantest R3765CG network analyzer
Measurement Type	S parameter vector network analysis
Port Count Class	2 port class
Frequency Coverage Class	RF coverage by model configuration
Dynamic Range Class	Wide dynamic range receivers
Source Power Control	Adjustable source power
Calibration	Full 2 port calibration support
IF Bandwidth	Selectable IFBW settings
Display	GraphicalSparameter display
Remote Interface	GPIB
Impedance	50 ohms
Connector Class	TypeNor precision RF ports class
Form Factor	Benchtop
Sweep Modes	Linear frequency sweep
Markers	Multi marker analysis
Memory	Trace save recall
Operating Temperature Class	Standard lab
Series Family	Advantest R3765CG R3767CG
Time Domain Class	Available on family options
Fixture Tools	Port extension class
Trace Noise Class	Low noise receiver architecture
Applications Class	RF component production test
Bandwidth	Selectable IFBW settings
Operating temperature	Class: Standard lab

R3765AGR3765BGR3765CG Specifications

PARAMETER	VALUE
Advantest R3765CG Network Analyzer	Overview
Technical Specifications	Instrument Family: Advantest R3765CG network analyzer
Notes	From Advantest R3765CG / R376xCG family documentation. Confirm exact frequency span and dynamic-range table on the R3765CG datasheet.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Standard lab
Operating Temperature	Class: Standard lab
Operating Temperature Class	Standard lab
Series Family	Advantest R3765CG R3767CG
Time Domain Class	Available on family options
Fixture Tools	Port extension class
Trace Noise Class	Low noise receiver architecture
Applications Class	RF component production test Notes From Advantest R3765CG / R376xCG family documentation. Confirm exact frequency span and dynamic-range table on the R3765CG datasheet.

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

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Time Domain Class	Available on family options
Fixture Tools	Port extension class
Trace Noise Class	Low noise receiver architecture
Applications Class	RF component production test

Notes
From Advantest R3765CG / R376xCG family documentation. Confirm exact frequency span and dynamic-range table on the R3765CG datasheet.

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

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