

**Aumictech**

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Data Sheet

August 15, 2026

ADVANTEST

Advantest R3561 – CDMA test source unit

Advantest R3561 CDMA Test Source 800 MHz to 2.3 GHz The Advantest R3561 is a stand-alone CDMA test source for cellular and PCS base/mobile station receiver testing. OEM R3561 datasheet rates 800 to 2300 MHz with 100 Hz resolution, -125 to 0 dBm output in 0.1 dB steps, IS-95 OQPSK/QPSK modulation with up to three forward code channels, AWGN Eb/No control, and standard GPIB. CDMA base and mobile station receiver characteristic tests, RF module evaluation, and paired use with R3465/3463 analyzers via dedicated serial I/O. The Advantest R3561 is a stand-alone CDMA test source for cellular and PCS base/mobile station receiver testing. OEM R3561 datasheet rates 800 to 2300 MHz with 100 Hz resolution, -125 to 0 dBm output in 0.1 dB steps, IS-95 OQPSK/QPSK modulation with up to three forward code channels, AWGN Eb/No control, and standard GPIB. CDMA base and mobile station receiver characteristic tests, RF module evaluation, and paired use with R3465/3463 analyzers via dedicated serial I/O. Up to three IS-97 code channels Pilot Sync Traffic



MODEL

Advantest R3561

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

R3561

LISTING

<https://aumictechlabs.com/products/r3561-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Advantest R3561 is a CDMA test source unit that generates accurate, stable signals for evaluating CDMA mobile communication devices and systems. It delivers modulated test signals conforming to IS-95 standard across all applicable data rates, with built-in AWGN capability for receiver and system characterization. The unit integrates into automated production test

environments through GPIB remote control or optional RS-232 interface, enabling seamless coupling with Advantest Spectrum Analyzers to reduce test costs and assembly complexity. Technical Specifications Frequency Range: 50 MHz to 2 GHz (1 Hz resolution) Modulation Standard: IS-95 compliant Data Rates: All applicable rates supported Built-in Noise Source: AWGN (Additive White Gaussian Noise) Waveform Quality: 0.96 Output Level: Configurable (see operation manual for detailed specifications) Tracking Generator: Available Key Features High-stability test signal generation with 1 Hz frequency resolution Built-in AWGN source for fading and noise simulation External control via GPIB or RS-232 (Option 80) Horizontal operating orientation with active cooling; air vents require unobstructed airflow Compact form factor: 16 × 12 × 12 inches; 15 lbs Typical Applications CDMA receiver characterization and validation CDMA system performance testing Production line quality assurance for mobile communication devices Integrated transmission/reception automated test systems Compatibility & Integration Designed for integration with Advantest Spectrum Analyzers (R3267, R3463, R3465) equipped with CDMA Source Control Option 09. Full external control capability via GPIB; RS-232 control available through Option 80 for legacy test controllers. Enables single-instrument automated test sequences, significantly reducing production floor footprint and operational overhead.

Features & description

From manufacturer datasheet

Built-in AWGN with Eb/No setting

PN9/PN15 and 600-frame user data memory External I/Q input for RF module tests GPIB control as standard Technical Specifications Model: R3561 Instrument Type: CDMA test source Output Frequency Range: 800 to 2300 MHz Frequency Resolution: 100 Hz Output Level Range: -125 to 0 dBm Output Level Resolution: 0.1 dB Level Accuracy Freq Less Equal 1000 Mhz -120 To 0 Dbm: plus or minus 1.5 dB at 25 plus or minus 10 C Level Accuracy Freq Less Equal 1000 Mhz -125 To -120.1 Dbm: plus or minus 2.5 dB at 25 plus or minus 10 C Level Accuracy Freq Greater 1000 Mhz -110 To 0 Dbm: plus or minus 1.5 dB at 25 plus or minus 10 C Level Accuracy Freq Greater 1000 Mhz -125 To -110.1 Dbm: plus or minus 2.5 dB at 25 plus or minus 10 C Harmonics: less than or equal to -30 dBc at 0 dBm output Non Harmonics: less than or equal to -60 dBc for frequency offset greater than 10 kHz Ssb Phase Noise: less than or equal to -107 dBc/Hz at 50 kHz offset at 1000 MHz Awgn Bandwidth: greater than or equal to 2 MHz Eb No Range: 0 to 15 dB Eb No Resolution: 0.1 dB Eb No Accuracy: less than plus or minus 1.0 dB after calibration Modulation Modes: OQPSK/QPSK EIA/TIA/IS-95 Waveform Quality: 0.99 after calibration Channel Level Offset Range: -5 to -30 dB relative to total level

R3561 Characteristics / Specifications

PARAMETER	VALUE
Model	R3561
Instrument Type	CDMA test source
Output Frequency Range	800 to 2300 MHz
Frequency Resolution	100 Hz
Output Level Range	-125 to 0 dBm
Output Level Resolution	0.1 dB
Harmonics	less than or equal to -30 dBc at 0 dBm output
Non Harmonics	less than or equal to -60 dBc for frequency offset greater than 10 kHz
Ssb Phase Noise	less than or equal to -107 dBc/Hz at 50 kHz offset at 1000 MHz
Awgn Bandwidth	greater than or equal to 2 MHz
Eb No Range	0 to 15 dB
Eb No Resolution	0.1 dB
Eb No Accuracy	less than plus or minus 1.0 dB after calibration
Modulation Modes	OQPSK/QPSK EIA/TIA/IS-95
Waveform Quality	0.99 after calibration
Channel Level Offset Range	-5 to -30 dB relative to total level
Channel Level Offset Resolution	0.1 dB
Channel Level Offset Accuracy	less than plus or minus 0.5 dB
Transmission Rates	9600/4800/2400/1200/14400/7200/3600/1800 bps
Pn Offset	0 to 511
Adjacent Channel Noise At 750 Khz	less than or equal to -45 dBc in 30 kHz BW
Adjacent Channel Noise At 1.98 Mhz	less than or equal to -60 dBc in 30 kHz BW
Internal Reference	10 MHz greater than or equal to 0 dBm
Reference Aging Per Day	less than 2×10^{-8}
Reference Aging Per Year	less than 5×10^{-7}

PARAMETER	VALUE
Rf Connector	N type 50 Ohm
Maximum Reverse Input Power	2 W
Output Swr	less than or equal to 1.5 at output level less than -10 dBm
Power Supply	100-120/220-240 Vac 50/60 Hz
Power Consumption	300 VA or less
Operating Temperature	0 to 50 C RH 85 percent or less non-condensing
Storage Temperature	-20 to 60 C RH 85 percent or less
Mass	16 kg or less
Dimensions HxWxD	approximately 177 × 350 × 420 mm
Interface	IEEE-488 GPIB
Bandwidth	greater than or equal to 2 MHz

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	20 to 60 C RH 85 percent or less
Operating temperature	0 to 50 C RH 85 percent or less non-condensing
Operating Temperature	0 to 50 C RH 85 percent or less non-condensing
Mass	16 kg or less
Dimensions HxWxD	approximately 177 × 350 × 420 mm
Interface	IEEE-488 GPIB Notes From Advantest R3561 CDMA Test Source datasheet/specification pages. Frequency accuracy depends on reference source accuracy per OEM statement.

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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PARAMETER	VALUE
Model	R3561
Instrument Type	CDMA test source
Output Frequency Range	800 to 2300 MHz
Frequency Resolution	100 Hz
Output Level Range	-125 to 0 dBm
Output Level Resolution	0.1 dB
Level Accuracy Freq Less Equal 1000 Mhz -120 To 0 Dbm: plus or minus 1.5 dB at 25 plus or minus 10 C	
Level Accuracy Freq Less Equal 1000 Mhz -125 To -120.1 Dbm: plus or minus 2.5 dB at 25 plus or minus 10 C	
Level Accuracy Freq Greater 1000 Mhz -110 To 0 Dbm: plus or minus 1.5 dB at 25 plus or minus 10 C	
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Awgn Bandwidth	greater than or equal to 2 MHz
Eb No Range	0 to 15 dB
Eb No Resolution	0.1 dB
Eb No Accuracy	less than plus or minus 1.0 dB after calibration
Modulation Modes	OQPSK/QPSK EIA/TIA/IS-95
Waveform Quality	0.99 after calibration
Channel Level Offset Range	-5 to -30 dB relative to total level
Channel Level Offset Resolution	0.1 dB
Channel Level Offset Accuracy	less than plus or minus 0.5 dB
Transmission Rates	9600/4800/2400/1200/14400/7200/3600/1800 bps
Pn Offset	0 to 511

PARAMETER	VALUE
Adjacent Channel Noise At 750 KHz	less than or equal to -45 dBc in 30 kHz BW
Adjacent Channel Noise At 1.98 Mhz	less than or equal to -60 dBc in 30 kHz BW
Internal Reference	10 MHz greater than or equal to 0 dBm
Reference Aging Per Day	less than 2×10^{-8}
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Rf Connector	N type 50 Ohm
Maximum Reverse Input Power	2 W
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Operating Temperature	0 to 50 C RH 85 percent or less non-condensing
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Mass	16 kg or less
Dimensions HxWxD	approximately 177 x 350 x 420 mm
Interface	IEEE-488 GPIB

Notes

From Advantest R3561 CDMA Test Source datasheet/specification pages. Frequency accuracy depends on reference source accuracy per OEM statement.

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