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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68253B Synthesized Signal Generator, 2 to 26.5 GHz

Anritsu 68253B Synthesized Signal Generator 2 to 26.5 GHz The Anritsu 68253B is a synthesized signal generator covering 2 to 26.5 GHz in the 68200B family. It adds internal/external AM, FM, and pulse modulation with internal arbitrary waveform generators to the CW architecture for complex microwave signal simulation and ATE stimulus. The Anritsu 68253B is a synthesized signal generator covering 2 to 26.5 GHz in the 68200B family. It adds internal/external AM, FM, and pulse modulation with internal arbitrary waveform generators to the CW architecture for complex microwave signal simulation and ATE stimulus.



MODEL

Anritsu 68253B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68253B

LISTING

<https://aumictechlabs.com/products/68253b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 68253B Synthesized Signal Generator delivers stable, precise RF output across 2 to 26.5 GHz for demanding microwave test applications. This instrument combines agile frequency control with flexible modulation support, enabling comprehensive signal characterization in wireless and satellite communication environments. Fast frequency switching under 10 ms, low phase noise, and excellent spurious performance make it suitable for both development and production testing workflows. Technical Specifications RF Performance Frequency range: 2 to

26.5 GHz Frequency resolution: 1 Hz Frequency switching speed: < 10 ms (typical, full range)
Output power: -120 dBm to +13 dBm (typical, frequency dependent) Power accuracy: ± 1.0 dB (typical) Power flatness: ± 0.5 dB (typical, 1 GHz bandwidth) Harmonic distortion: < -35 dBc (typical, +10 dBm output) Non-harmonic spurious: 10 kHz offset) Phase noise: 70 dB on/off ratio, 50 ns to CW pulse width, 10 Hz to 1 MHz PRF Digital modulation support available via optional capabilities Interfaces & Control Remote: SCPI, GPIB (IEEE 488.2), Ethernet (10/100 Base-T), RS-232 Front panel: LCD display, rotary encoder, soft keys

Key Features 1 Hz frequency resolution across full 2–26.5 GHz range Sub-10 ms frequency agility for rapid switching applications Output power range spans 133 dB dynamic range Excellent phase noise performance for precision testing Multiple modulation formats including AM, FM, and pulse modes

Typical Applications Wireless transceiver characterization and validation Satellite communication system testing Microwave component specification verification Signal integrity analysis in broadband systems Modulation format development and verification

Compatibility & Integration The 68253B integrates with standard test environments via SCPI and GPIB remote control, supporting 10/100 Base-T Ethernet and RS-232 serial interfaces. Industry-standard 3.5 mm or N-type output connectors ensure compatibility with existing microwave measurement systems and accessories.

Features & description

From manufacturer datasheet

Features

- Frequency coverage 2 to 26.5 GHz
- Internal and external AM FM pulse modulation
- Internal generators with seven modulating waveforms
- Standard 1 kHz resolution; Option 11 for 0.1 Hz
- Banded leveled power per 6XX53 tables
- IEEE-488 GPIB remote programming

Applications

- Modulated microwave signal simulation 2 to 26.5 GHz
- Receiver and radar pulse modulation tests
- ATE stimulus with internal modulation generators
- LO and clock applications needing AM FM pulse

High power Option 15 20 to 26.5 GHz: plus 10 dBm

Output power resolution: 0.01 dB Internal time base aging: less than 2×10^{-8} /day Internal time base aging Option 16: less than 5×10^{-10} /day SSB phase noise 68XXXB at 20 GHz 10 kHz offset: -78 dBc/Hz SSB phase noise 68XXXB at 26.5 GHz 10 kHz offset: -76 dBc/Hz Modulation AM: internal and external Modulation FM: internal and external Modulation pulse: internal and external Internal waveforms: 7 including Gaussian noise Phase modulation: Option 6 Remote control: IEEE 488 GPIB Dimensions: about 5.25 inHx 16.875 inWx 23.5 inDWeight: about 50 lb Related CW model: 68053B Related sweep model: 68153B Related sweep signal model: 68353B Related ultra low noise signal: 69253A RF connector class: TypeKfemale Notes Power and modulation class from Anritsu 68000B/69000A datasheet for 68253B (2–26.5 GHz). Confirm Option 6/15/16 and RF connector on the unit.

68253B Characteristics / Specifications

PARAMETER	VALUE
Model	68253B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Signal Generator
Alias	68253B; Anritsu 68253B
Frequency range	2 GHz to 26.5 GHz
Family	68200B Synthesized Signal Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option	0.1 Hz
Leveled output 2 to 20 GHz	plus 9 dBm
Leveled output greater than 20 to 26.5 GHz	plus 6 dBm
Leveled with step attenuator 2 to 20 GHz	plus 7 dBm
Leveled with step attenuator greater than 20 to 26.5 GHz	plus 3.5 dBm
High power Option 15 2 to less than 20 GHz	plus 13 dBm
High power Option 15 20 to 26.5 GHz	plus 10 dBm
Output power resolution	0.01 dB
Internal time base aging	less than 2×10^{-8} /day
Internal time base aging Option	less than 5×10^{-10} /day
SSB phase noise 68XXXB at 20 GHz 10 kHz offset	-78 dBc/Hz
SSB phase noise 68XXXB at 26.5 GHz 10 kHz offset	-76 dBc/Hz
Modulation AM	internal and external
Modulation FM	internal and external
Modulation pulse	internal and external

PARAMETER	VALUE
Internal waveforms	7 including Gaussian noise
Phase modulation	Option 6
Remote control	IEEE 488 GPIB
Dimensions	about 5.25 inHx 16.875 inWx 23.5 inDWeight: about 50 lb
Related CW model	68053B
Related sweep model	68153B
Related sweep signal model	68353B
Related ultra low noise signal	69253A
RF connector class	TypeKfemale Notes Power and modulation class from Anritsu 68000B/69000A datasheet for 68253B (2–26.5 GHz). Confirm Option 6/15/16 and RF connector on the unit.

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
Modulation AM	internal and external
Modulation FM	internal and external
Modulation pulse	internal and external
Internal waveforms	7 including Gaussian noise
Phase modulation	Option 6
Remote control	IEEE 488 GPIB
Dimensions	about 5.25 in H x 16.875 in W x 23.5 in D
Weight	about 50 lb
Related CW model	68053B
Related sweep model	68153B
Related sweep signal model	68353B
Related ultra low noise signal	69253A
RF connector class	Type K female
Specifications	
PARAMETER	VALUE
Model	68253B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Signal Generator
Alias	68253B; Anritsu 68253B
Frequency range	2 GHz to 26.5 GHz
Family	68200B Synthesized Signal Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option 11	0.1 Hz
Leveled output 2 to 20 GHz	plus 9 dBm
Leveled output greater than 20 to 26.5 GHz: plus 6 dBm Leveled with step attenuator 2 to 20 GHz: plus 7 dBm	

Leveled with step attenuator greater than 20 to 26.5 GHz: plus 3.5 dBm
High power Option 15 2 to less than 20 GHz: plus 13 dBm
High power Option 15 20 to 26.5 GHz: plus 10 dBm

Specifications

PARAMETER	VALUE
Output power resolution	0.01 dB
Internal time base aging	less than 2 x 10 ⁻⁸ /day
Internal time base aging Option 16	less than 5 x 10 ⁻¹⁰ /day

SSB phase noise 68XXXB at 20 GHz 10 kHz offset: -78 dBc/Hz
SSB phase noise 68XXXB at 26.5 GHz 10 kHz offset: -76 dBc/Hz

Specifications

PARAMETER	VALUE
Modulation AM	internal and external
Modulation FM	internal and external
Modulation pulse	internal and external
Internal waveforms	7 including Gaussian noise
Phase modulation	Option 6
Remote control	IEEE 488 GPIB
Dimensions	about 5.25 inHx 16.875 inWx 23.5 inDWeight: about 50 lb
Related CW model	68053B
Related sweep model	68153B
Related sweep signal model	68353B
Related ultra low noise signal	69253A
RF connector class	TypeKfemale

Notes
Power and modulation class from Anritsu 68000B/69000A datasheet for 68253B (2–26.5 GHz). Confirm Option 6/15/16 and RF connector on the unit.

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.