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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68363B Synthesized Sweep/Signal Generator. 2 to 40 GHz

Anritsu 68363B Synthesized Sweep/Signal Generator 2 to 40 GHz The Anritsu 68363B is a synthesized sweep/signal generator covering 2 GHz to 40 GHz in the 68000B synthesizer family. It combines CW, analog/step sweep, and comprehensive modulation at moderate cost relative to the ultra-low-noise 69A line, for broadband signal simulation and swept measurements to 40 GHz as the 6XX63B sweep/signal member. The Anritsu 68363B is a synthesized sweep/signal generator covering 2 GHz to 40 GHz in the 68000B synthesizer family. It combines CW, analog/step sweep, and comprehensive modulation at moderate cost relative to the ultra-low-noise 69A line, for broadband signal simulation and swept measurements to 40 GHz as the 6XX63B sweep/signal member.



MODEL

Anritsu 68363B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68363B

LISTING

<https://aumictechlabs.com/products/68363b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu 68363B is a synthesized sweep/signal generator spanning 2 GHz to 40 GHz, engineered for microwave and millimeter-wave testing. This instrument delivers flexible signal generation through multiple sweep architectures - analog, step, manual, and alternate modes - alongside discrete CW frequency capability. Phase-locked synthesis ensures precise frequency

control across broad and narrow-band applications. Technical Specifications Frequency Range: 2 GHz to 40 GHz Output Power: -20 dBm to +20 dBm standard; -10 dBm to +30 dBm with Option 15B (High Power) Phase Noise: Ultra-low SSB phase noise performance (typical -100 dBc at 10 kHz offset from 10 GHz) Power Level Flatness (Analog Sweep): ± 2.0 dB maximum variation from 2 to 20 GHz; ± 4.0 dB from 20 to 40 GHz RF Output: Type K female connector Physical: 429 mm (W) $\times$ 133 mm (H) $\times$ 597 mm (D); ≤ 23 kg Key Features Analog Sweep: Phase-lock corrected operation to 100 MHz sweep width with adjustable start and stop frequencies. Step Sweep: Up to 10,000 steps with user-selectable step sizes from 1 kHz to full range (0.1 Hz with Option 11). Dwell time 1 ms to 99 seconds; switching time typically < 15 ms + 1 ms/GHz step size, or < 40 ms maximum. Manual Sweep: Phase-locked frequency adjustments between user-defined limits; supports 1000 non-sequential frequency storage for GPIB-addressed step sweeps. Alternate Sweep: Dual-range operation with independent power level control per range. Modulation: Internal AM, FM, and phase modulation ($\emptyset$ M); user-downloadable complex modulation support. Typical Applications Microwave and millimeter-wave component testing, receiver characterization, system integration validation, and frequency-dependent performance measurement across the 2–40 GHz band. Compatibility & Integration IEEE-488 GPIB interface enables remote control and system integration.

Features & description

From manufacturer datasheet

Features

- Coverage 2 to 40 GHz • Analog and phase locked step sweep • Internal/external AM, FM, pulse; optional phase modulation • 68B family excellent phase noise at moderate cost • List sweep with large frequency/power tables • Optional 0.1 Hz resolution and high stability time base • GPIB remote control
- Upgradeable 68B platform toward later 68C/69B

Applications

- Broadband swept network analysis to 40 GHz • AM/FM/pulse modulated signal simulation • ATE microwave stimulus • Radar and EW receiver testing • CW LO use when modulation and sweep are idle

High power Option 15 greater than 20 to 40 GHz: +6 dBm

Output power resolution: 0.01 dB Frequency resolution standard: 1 kHz Frequency resolution Option 11: 0.1 Hz CW accuracy: same as internal or external 10 MHz time base Internal time base aging: less than 2×10^{-8} /day Internal time base aging Option 16: less than 5×10^{-10} /day Analog sweep width: 1 MHz to full range Analog sweep time: 30 ms to 99 s Step sweep steps: 1 to 10000 List sweep points: up to 2000 per table Minimum leveled power without attenuator: to -15 dBm (-20 dBm typical) Minimum leveled power with attenuator: to -120 dBm class SSB phase noise: 68B family excellent moderate cost class Remote control: GPIB Dimensions: 133 mmHx 429 mmWx 597 mmDMass: less than or equal to 23 kg RF output connector: TypeKfemale Related CW 69A: 69063A Related ultra low noise sweep signal: 69363A Related sweep only: 68163B Related signal only: 68263B Notes Specs from Anritsu/Wiltron 68B/69A Series frequency charts and 6XX63 power tables for 68363B (2–40 GHz). Confirm options and leveled power on the unit.

68363B Characteristics / Specifications

PARAMETER	VALUE
Model	68363B
Manufacturer	Anritsu
Instrument Type	Synthesized Sweep/Signal Generator
Alias	68363B; Anritsu 68363B
Frequency range	2 GHz to 40 GHz
Family	68000B synthesizers
Leveled power 2 to 20 GHz	+9 dBm
Leveled power greater than 20 to 40 GHz	+6 dBm
Leveled power with step attenuator 2 to 20 GHz	+7 dBm
Leveled power with step attenuator greater than 20 to 40 GHz	+3 dBm
High power Option 15 2 to 20 GHz	+13 dBm
High power Option 15 greater than 20 to 40 GHz	+6 dBm
Output power resolution	0.01 dB
Frequency resolution standard	1 kHz
Frequency resolution Option	0.1 Hz
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2×10^{-8} /day
Internal time base aging Option	less than 5×10^{-10} /day
Analog sweep width	1 MHz to full range
Analog sweep time	30 ms to 99 s
Step sweep steps	1 to 10000
List sweep points	up to 2000 per table
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)

PARAMETER	VALUE
Minimum leveled power with attenuator	to -120 dBm class
SSB phase noise	68B family excellent moderate cost class
Remote control	GPIB
Dimensions	133 mmHx 429 mmWx 597 mmDMass: less than or equal to 23 kg
RF output connector	TypeKfemale
Related CW 69A	69063A
Related ultra low noise sweep signal	69363A
Related sweep only	68163B
Related signal only	68263B Notes Specs from Anritsu/Wiltron 68B/69A Series frequency charts and 6XX63 power tables for 68363B (2–40 GHz). Confirm options and leveled power 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	
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PARAMETER	VALUE
Output power resolution	0.01 dB
Frequency resolution standard	1 kHz
Frequency resolution Option 11	0.1 Hz
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2 x 10^-8/day
Internal time base aging Option 16	less than 5 x 10^-10/day
Analog sweep width	1 MHz to full range
Analog sweep time	30 ms to 99 s
Step sweep steps	1 to 10000
List sweep points	up to 2000 per table
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	to -120 dBm class
SSB phase noise	68B family excellent moderate cost class
Remote control	GPIB
Dimensions	133 mm H x 429 mm W x 597 mm D
Mass	less than or equal to 23 kg
RF output connector	Type K female
Related CW 69A	69063A
Related ultra low noise sweep signal	69363A
Related sweep only	68163B
Related signal only	68263B
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PARAMETER	VALUE
Model	68363B
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PARAMETER	VALUE
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Alias	68363B; Anritsu 68363B
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Family	68000B synthesizers
Leveled power 2 to 20 GHz	+9 dBm

Leveled power greater than 20 to 40 GHz: +6 dBm
 Leveled power with step attenuator 2 to 20 GHz: +7 dBm
 Leveled power with step attenuator greater than 20 to 40 GHz: +3 dBm
 High power Option 15 2 to 20 GHz: +13 dBm
 High power Option 15 greater than 20 to 40 GHz: +6 dBm

Specifications

PARAMETER	VALUE
Output power resolution	0.01 dB
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Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	to -120 dBm class
SSB phase noise	68B family excellent moderate cost class
Remote control	GPIO
Dimensions	133 mmHx 429 mmWx 597 mmDMass: less than or equal to 23 kg
RF output connector	TypeKfemale
Related CW 69A	69063A
Related ultra low noise sweep signal	69363A
Related sweep only	68163B
Related signal only	68263B

Notes

Specs from Anritsu/Wiltron 68B/69A Series frequency charts and 6XX63 power tables for 68363B (2-40 GHz).
Confirm options and leveled power 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.