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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69363A Synthesized Sweep/Signal Generator. 2 - 40 GHz

Anritsu 69363A Synthesized Sweep/Signal Generator 2-40 GHz The Anritsu/Wiltron 69363A is the highest-capability 69A Series universal synthesizer covering 2 GHz to 40 GHz. It combines CW, analog/step/manual sweep, and full AM/FM/phase/pulse modulation in one package for microwave stimulus and signal-simulation applications. Related 69x family members share the same band with reduced modulation or sweep feature sets. The Anritsu/Wiltron 69363A is the highest-capability 69A Series universal synthesizer covering 2 GHz to 40 GHz. It combines CW, analog/step/manual sweep, and full AM/FM/phase/pulse modulation in one package for microwave stimulus and signal-simulation applications. Related 69x family members share the same band with reduced modulation or sweep feature sets.



MODEL

Anritsu 69363A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69363A

LISTING

<https://aumictechlabs.com/products/69363a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69363A is a synthesized sweep/signal generator delivering microwave signal generation across 2 GHz to 40 GHz. It generates continuous wave (CW) frequencies and both broad and narrow band sweeps with phase-lock capability, supporting analog, step, manual, and alternate sweep modes. Programmable frequency agility stores up to 1000 non-sequential

frequencies addressable via GPIB control. Front-panel and remote operation (IEEE-488) control all functions except power on/standby.

Technical Specifications

Frequency Range: 2 GHz to 40 GHz
Output Power Range: -125 dBm to +17 dBm
Frequency Switching Time (between sweep ranges): Typically less than 40 ms
Step Sweep Switching Time: Typically less than 15 ms + 1 ms/GHz step size, or less than 40 ms, whichever is less
Dwell Time Per Step: 1 ms to 99 seconds (variable)
Internal Time Base Stability (aging): Typically less than 2×10^{-8} /day; optional stability module reduces to $< 5 \times 10^{-10}$ /day
Internal Time Base Stability (temperature): Typically $< 2 \times 10^{-8}$ /°C (0°C to 55°C range)
Phase Noise: Ultra-low SSB phase noise characteristics typical of 69000 series instruments

Key Features

Synthesized CW and sweep generation across full 2–40 GHz range
Analog sweep for continuous frequency adjustment
Step sweep with user-selectable step counts and sizes
Manual sweep with phase-locked frequency stepping
Alternate sweep mode between two independent frequency ranges with configurable power levels
High-resolution phase-lock capability
Frequency agility: up to 1000 programmable non-sequential frequencies stored in volatile memory
External 10 MHz reference input
GPIB (IEEE-488) remote control interface

Typical Applications

Microwave signal generation, component characterization, receiver testing, and broadband system validation across X-, Ku-, and Ka-band frequencies.

Compatibility & Integration

Local front-panel operation or remote control via IEEE-488 GPIB interface. Accepts external 10 MHz reference signals for synchronized operation in multi-instrument test systems.

Features & description

From manufacturer datasheet

Features

• Full sweep/signal capability in 69300A class • Coverage 2 GHz to 40 GHz • Analog, step, alternate, and manual sweeps • Internal and external AM/FM/pulse modulation • Optional phase modulation Option 6 • Ultra low noise 69A synthesizer architecture • Optional step attenuator • GPIB remote control

Applications

• Swept microwave component characterization 2 GHz to 40 GHz • High performance AM/FM/phase/pulse signal simulation • Network analysis stimulus and ATE source • Radar and EW modulated signal generation • Phase locked step and analog frequency sweeps

69363A Characteristics / Specifications

PARAMETER	VALUE
Anritsu 69363A Synthesized Sweep/Signal Generator	40 GHz Overview The Anritsu/Wiltron 69363A is the highest-capability 69A Series universal synthesizer covering 2 GHz to 40 GHz. It combines CW, analog/step/manual sweep, and full AM/FM/phase/pulse modulation in one package for microwave stimulus and signal-simulation applications. Related 69x family members share the same band with reduced modulation or sweep feature sets.
Model	69363A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Sweep/Signal Generator
Alias	69363A; Anritsu 69363A; Wiltron 69363A
Frequency range	2 GHz to 40 GHz
Family	69A Series ultra low noise
Output power resolution	0.01 dB
Source impedance	50 ohm nominal
Source SWR internal leveling below 2 GHz	less than 1.7 typical
Source SWR 2 to 20 GHz	less than 1.6 typical
Source SWR above 20 GHz	less than 2.0 typical
Power level stability vs temperature	0.04 dB/degCtypical
Internal leveling	yes at output connector
RF on off	yes
Level offset	yes
CW frequency resolution standard	1 kHz class
CW 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 class
Internal time base aging Option	less than 5×10^{-10} /day class

PARAMETER	VALUE
Residual FM 0.5 to 1.0 GHz class	less than 10 Hz RMS
Residual FM 1.0 to 2.2 GHz class	less than 20 Hz RMS
Residual FM 2.2 to 20 GHz class	less than 40 Hz RMS
Step attenuator option to 26.5 GHz	Option 2A 110 dB
Step attenuator option to 40 GHz	Option 2B 110 dB
Step attenuator option to 50 GHz	Option 2C 90 dB
Step attenuator option to 60 GHz	Option 2D 90 dB
Rack mount option	Option 1
Remote control	GPIB
Dimensions	429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg
Leveled output power 2 to 20 GHz class	+13 dBm
Leveled output power greater than 20 to 40 GHz class	+6 dBm
Leveled output with step attenuator 2 to 20 GHz class	+11 dBm
Leveled output with step attenuator greater than 20 to 40 GHz class	+3 dBm
RF output connector	TypeKorVfemale class
Analog sweep width	1 MHz to full range
Analog sweep time	30 ms to 99 s
Analog sweep accuracy class	lesser of ± 30 MHz or $(\pm 2 \text{ MHz} + 0.25\% \text{ of sweep width})$ at ≤ 50 MHz/ms
Step sweep	every frequency step phase locked
Output mode	CW, sweep, and modulated signal
Related CW model	69063A
Related sweep model	69163A
Related signal model	69263A
Primary use	universal sweep/signal microwave synthesis 2–40 GHz Notes Specs from Anritsu/Wiltron 69A Series datasheet tables for 69363A (2–40 GHz Sweep/Signal). Series: 69000A CW, 69100A Sweep, 69200A

PARAMETER	VALUE
	Signal, 69300A Sweep/Signal. Confirm options, max leveled power on calibration label, and connector type.

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.

performance AM/FM/phase/pulse signal simulation

- Network analysis stimulus and ATE source
- Radar and EW modulated signal generation
- Phase locked step and analog frequency sweeps

Key Features

- Full sweep/signal capability in 69300A class
- Coverage 2 GHz to 40 GHz
- Analog, step, alternate, and manual sweeps
- Internal and external AM/FM/pulse modulation
- Optional phase modulation Option 6
- Ultra low noise 69A synthesizer architecture
- Optional step attenuator
- GPIB remote control

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	69363A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Sweep/Signal Generator
Alias	69363A; Anritsu 69363A; Wiltron 69363A
Frequency range	2 GHz to 40 GHz
Family	69A Series ultra low noise
Output power resolution	0.01 dB
Source impedance	50 ohm nominal
Source SWR internal leveling below 2 GHz	less than 1.7 typical
Source SWR 2 to 20 GHz	less than 1.6 typical
Source SWR above 20 GHz	less than 2.0 typical
Power level stability vs temperature	0.04 dB/deg C typical
Internal leveling	yes at output connector
RF on off	yes
Level offset	yes
CW frequency resolution standard	1 kHz class
CW 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 class

PARAMETER	VALUE
Internal time base aging Option 16	less than 5×10^{-10} /day class
Residual FM 0.5 to 1.0 GHz class	less than 10 Hz RMS
Residual FM 1.0 to 2.2 GHz class	less than 20 Hz RMS
Residual FM 2.2 to 20 GHz class	less than 40 Hz RMS
Step attenuator option to 26.5 GHz	Option 2A 110 dB
Step attenuator option to 40 GHz	Option 2B 110 dB
Step attenuator option to 50 GHz	Option 2C 90 dB
Step attenuator option to 60 GHz	Option 2D 90 dB
Rack mount option	Option 1
Remote control	GPIOB
Dimensions	429 mm W x 133 mm H x 597 mm D
Mass	less than or equal to 23 kg

Technical Specifications

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Model	69363A
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Level offset	yes
CW frequency resolution standard	1 kHz class
CW frequency resolution Option 11	0.1 Hz
CW accuracy	same as internal or external 10 MHz time base

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Internal time base aging	less than 2×10^{-8} /day class
Internal time base aging Option 16	less than 5×10^{-10} /day class
Residual FM 0.5 to 1.0 GHz class	less than 10 Hz RMS
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Step attenuator option to 26.5 GHz	Option 2A 110 dB
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Step attenuator option to 50 GHz	Option 2C 90 dB
Step attenuator option to 60 GHz	Option 2D 90 dB
Rack mount option	Option 1
Remote control	GPIB
Dimensions	429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg

Leveled output power 2 to 20 GHz class: +13 dBm

Leveled output power greater than 20 to 40 GHz class: +6 dBm

Leveled output with step attenuator 2 to 20 GHz class: +11 dBm

Leveled output with step attenuator greater than 20 to 40 GHz class: +3 dBm

Specifications

PARAMETER	VALUE
RF output connector	TypeKorVfemale class
Analog sweep width	1 MHz to full range
Analog sweep time	30 ms to 99 s
Analog sweep accuracy class	lesser of ± 30 MHz or $(\pm 2 \text{ MHz} + 0.25\% \text{ of sweep width})$ at ≤ 50 MHz/ms
Step sweep	every frequency step phase locked
Output mode	CW, sweep, and modulated signal
Related CW model	69063A
Related sweep model	69163A
Related signal model	69263A
Primary use	universal sweep/signal microwave synthesis 2–40 GHz

Notes

Specs from Anritsu/Wiltron 69A Series datasheet tables for 69363A (2–40 GHz Sweep/Signal). Series: 69000A CW, 69100A Sweep, 69200A Signal, 69300A Sweep/Signal. Confirm options, max leveled power on calibration label, and connector type.

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.