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Data Sheet

August 13, 2026

ANRITSU

Anritsu MG3660A Digital Modulation Signal Generator

Anritsu MG3660A Digital Modulation Signal Generator The Anritsu MG3660A is an economic digital modulation signal generator covering 300 kHz to 2.75 GHz with the same basic features, GPIB, and front-panel operation as the higher-level MG3671A/B family. It supports plug-in expansion units for digital cellular formats including $\pi/4$ DQPSK, GMSK, GFSK, and burst functions used in PDC, GSM/DCS, and related mobile radio tests. The Anritsu MG3660A is an economic digital modulation signal generator covering 300 kHz to 2.75 GHz with the same basic features, GPIB, and front-panel operation as the higher-level MG3671A/B family. It supports plug-in expansion units for digital cellular formats including $\pi/4$ DQPSK, GMSK, GFSK, and burst functions used in PDC, GSM/DCS, and related mobile radio tests.



MODEL

Anritsu MG3660A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MG3660A

LISTING

<https://aumictechlabs.com/products/mg3660a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu MG3660A is a digital modulation signal generator engineered for wireless communication testing across telecommunications, aerospace, and related industries. This economic variant of the MG3671A/B delivers precise signal generation with support for multiple modulation formats and a modulation bandwidth extending to 160 MHz. The instrument combines

frequency coverage from 300 kHz to 2.75 GHz with output levels spanning -143 dBm to +13 dBm, making it suitable for complex modulation and signal integrity validation.

Technical Specifications

Frequency & Reference Frequency range: 300 kHz to 2.75 GHz Carrier frequency accuracy: ± 2 ppm (internal reference) Internal reference oscillator: 10 MHz with aging rate $\leq 2 \times 10^{-8}$ /day Temperature stability: $\leq \pm 5 \times 10^{-8}$ across 0° to 50°C External reference input: 10 MHz or 13 MHz (± 10 ppm), 2 to 5 Vp-p

Output Signal Output level range: -143 dBm to +13 dBm Output level resolution: 0.1 dB Output impedance: 50 Ω , N-type connector Level accuracy: ± 1 dB (≤ 1000 MHz), ± 2 dB (> 1000 MHz) Continuously-variable output: 20 dB range in 0.1 dB steps Level units: dBm, dB μ , μ V, mV, V

Signal Purity Spurious: ≤ -65 dBc (≥ 100 kHz offset, ± 100 MHz bandwidth); ≤ -50 dBc (full band) SSB phase noise: ≤ -116 dBc/Hz at 100 kHz offset (CW) Adjacent channel leakage power ratio: ≤ -45 dB (25 kHz offset); ≤ -62 dB (50 kHz offset)

Modulation Supported types: AM, FM, PM, FSK, MSK, PSK, QAM, custom modulation Modulation bandwidth: Up to 160 MHz

Key Features Dual reference oscillator options with selectable 10 MHz internal or external 10/13 MHz input Multiple output level units for flexibility across measurement domains Low spurious and phase noise performance for demanding modulation schemes USB, LAN, and GPIB interfaces for remote operation and integration

Typical Applications Digital modulation validation and receiver testing Telecommunications equipment characterization Aerospace signal generation and system verification Modulated signal source for complex RF testing

Compatibility & Integration The MG3660A maintains front panel operation identical to MG3670B/C and MG3671A/B models. Standard connectivity includes USB, LAN, and GPIB for laboratory and automated test environments. Note: This model was discontinued as of September 2002; the MG3681A has been identified as a potential replacement.

Features & description

From manufacturer datasheet

Features

• Frequency coverage 300 kHz to 2.75 GHz • Economic version of MG3671A/B with shared expansion units • Identical GPIB and front panel operation to higher models • Supports MG0301C $\pi/4$ DQPSK modulation unit • Supports MG0302A GMSK and MG0305A GFSK units • Supports MG0303B burst function unit • High stability reference oscillator options • Compact benchtop digital signal generator platform

Applications

• Digital cellular mobile station and base station testing • PDC, GSM/DCS1800, and related modulation stimulus • Receiver sensitivity and adjacent channel tests • Production line digital RF stimulus • Companion source with MS8604A transmitter testers • R&D baseband-to-RF digital modulation work

MG3660A Characteristics / Specifications

PARAMETER	VALUE
Model	MG3660A
Manufacturer	Anritsu
Instrument Type	Digital Modulation Signal Generator
Alias	MG3660A; Anritsu MG3660A
Frequency range	300 kHz to 2.75 GHz
Family	MG3660A / MG3670 / MG3671 digital modulation generators
Output impedance	50 ohm nominal
Frequency resolution class	1 Hz class family
Output level range class	-143 to +13 dBm class family
Output level resolution	0.1 dB class
Level accuracy class	±1 dB typical midrange family
SSB phase noise class	digital RF generator family tables
Spurious class	see MG3660A datasheet tables
AM modulation	supported on mainframe class
FM modulation	supported on mainframe class
Pulse modulation	supported on mainframe class
Expansion unit MG0301C	$\pi/4$ DQPSK Modulation Unit
Expansion unit MG0302A	GMSK Modulation Unit
Expansion unit MG0303B	Burst Function Unit
Expansion unit MG0305A	GFSK Modulation Unit
Reference Option 01 aging	5×10^{-9} /day
Reference Option 02 aging	2×10^{-9} /day
Reference Option 03 aging	5×10^{-10} /day
Remote control	GPIB
Display	front panel LCD with soft keys

PARAMETER	VALUE
Related higher model	MG3671A/B
Related companion	MG3670B/C
Primary use	economic digital modulation RF generation to 2.75 GHz Notes Specs from Anritsu MG3660A Digital Modulation Signal Generator catalog/datasheet pages. Confirm installed expansion units and reference oscillator option 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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Model	MG3660A
Manufacturer	Anritsu
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Alias	MG3660A; Anritsu MG3660A
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Output impedance	50 ohm nominal
Frequency resolution class	1 Hz class family
Output level range class	-143 to +13 dBm class family
Output level resolution	0.1 dB class
Level accuracy class	±1 dB typical midrange family
SSB phase noise class	digital RF generator family tables
Spurious class	see MG3660A datasheet tables
AM modulation	supported on mainframe class
FM modulation	supported on mainframe class
Pulse modulation	supported on mainframe class
Expansion unit MG0301C	π/4 DQPSK Modulation Unit
Expansion unit MG0302A	GMSK Modulation Unit
Expansion unit MG0303B	Burst Function Unit
Expansion unit MG0305A	GFSK Modulation Unit
Reference Option 01 aging	5 x 10 ⁻⁹ /day
Reference Option 02 aging	2 x 10 ⁻⁹ /day
Reference Option 03 aging	5 x 10 ⁻¹⁰ /day
Remote control	GPIB
Display	front panel LCD with soft keys
Related higher model	MG3671A/B

PARAMETER	VALUE
Related companion	MG3670B/C
Primary use	economic digital modulation RF generation to 2.75 GHz

Notes
Specs from Anritsu MG3660A Digital Modulation Signal Generator catalog/datasheet pages. Confirm installed expansion units and reference oscillator option 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 ·
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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.