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Data Sheet

August 14, 2026

ANRITSU

Anritsu MG3710A 10" Vector Signal Generator

The Anritsu MG3710A is a vector signal generator with RF coverage from 100 kHz up to 2.7, 4.0, or 6.0 GHz depending on installed RF unit options. OEM MG3710A materials emphasize dual-RF configurations, wide vector modulation bandwidth, and high ACLR performance for wireless production and R&D. Wireless device and base-station receiver testing, amplifier ACLR tests, and general vector-modulated RF stimulus. Frequency Range Maximum Options: 2.7 GHz or 4.0 GHz or 6.0 GHz Waveform Generation: Built-in/ARB with IQproducer class Operating Temperature Class: Standard lab class GPIB LAN USB Class: Remote interfaces class Applications Class: LTE W-CDMA WLAN cellular production class Frequency option bounds from Anritsu MG3710A vector signal generator OEM product documentation. Confirm installed RF unit option for exact upper frequency and modulation bandwidth on the unit.



MODEL

Anritsu MG3710A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MG3710A

LISTING

<https://aumictechlabs.com/products/mg3710a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu MG3710A is a vector signal generator engineered for advanced communication system testing across R&D, manufacturing, and quality assurance environments. It delivers precise RF signal generation with versatile modulation capabilities, wide frequency coverage, and support for multi-signal scenarios including MIMO and carrier aggregation testing. The instrument combines high output performance with excellent signal purity, making it suitable for complex

testing of modern wireless standards. Technical Specifications Frequency Coverage Standard configurations up to 2.7 GHz, 4.0 GHz, or 6.0 GHz Minimum frequency: 100 kHz RF band (internal baseband generator): 120 MHz to 160 MHz Output Performance Output level range: -144 dBm to +25 dBm (MG3710A-041/042/071/072) Maximum output level (CW, 400 MHz to 3 GHz): +23 dBm Output level resolution: 0.01 dB Absolute level accuracy: ± 0.5 dB Linearity: ± 0.2 dB (typical) ACLR (W-CDMA, Test-Model 1, 64DPCH, $\leq +5$ dBm): -71 dBc Signal Generation & Memory Vector modulation bandwidth: 120 MHz to 160 MHz Sampling rate: 20 kHz to 200 MHz Baseband memory: 64 Msamples standard; optional expansion to 256 Msamples or 1024 Msamples Switching speed (list/sweep mode): $< 600 \mu\text{s}$ Signal Purity SSB phase noise: < -140 dBc/Hz nominal (100 MHz, 20-kHz offset, CW); < -131 dBc/Hz typical (1 GHz, 20-kHz offset); < -125 dBc/Hz typical (2 GHz, 20-kHz offset) Harmonics: < -30 dBc (with MG3710A-041) Non-harmonic spurious: < -64 dBc typical ($3 \text{ GHz} < f \leq 6 \text{ GHz}$) Key Features Pre-installed waveform patterns for LTE, W-CDMA/HSDPA, GSM/EDGE, CDMA2000 1x/1xEV-DO, Bluetooth, GPS, GLONASS, QZSS, PDC, PHS, ISDB-T/BS/CS/CATV, and WLAN IEEE 802.11a/b/g IQproducer software for 5G NR (TDD/FDD), LTE/LTE-Advanced, WLAN 11a/b/g/n/j/p/11ac, W-CDMA/HSPA, CDMA2000, TD-SCDMA, fading, multi-carrier, DVB-T/H, and TDMA Dual RF output option for simultaneous independent signal generation Dual waveform memory option for independent modulation control Typical Applications Wireless device development and certification testing MIMO and carrier aggregation system validation Multi-standard signal generation for receiver characterization Fading and impairment simulation Compatibility & Integration Supports custom waveform generation via baseband memory and integrates standard modulation formats for legacy and emerging communication standards.

MG3710A Characteristics / Specifications

PARAMETER	VALUE
Frequency Range Minimum	100 kHz
Frequency Range Maximum Options	2.7 GHz or 4.0 GHz or 6.0 GHz
Instrument Type	Vector signal generator
Series Family	Anritsu MG3710A
Modulation	Vector I/Q
Waveform Generation	Built-in/ARB with IQproducer class
Dual RF Capability	Supported with dual RF units
Remote Control	Supported
Form Factor	Benchtop
RF Output Connector Class	TypeNclass
Reference Oscillator	Internal with external ref input class
ALC Leveling	Supported
Analog Modulation Class	AM FM PM class options
Pulse Modulation Class	Available class options
Baseband Generator	Built-in vector baseband
ACLR Performance Class	High ACLR wireless test class
Level Accuracy Class	High accuracy leveled output class
Frequency Resolution Class	Fine synthesis resolution class
Operating Temperature Class	Standard lab class
GPIO LAN USB Class	Remote interfaces class
Sibling Legacy Generator	MG3700A
Applications Class	LTE W-CDMA WLAN cellular production class
Operating temperature	Class: Standard lab class

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Standard lab class
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GPIB LAN USB Class	Remote interfaces class
Sibling Legacy Generator	MG3700A
Applications Class	LTE W-CDMA WLAN cellular production class Notes Frequency option bounds from Anritsu MG3710A vector signal generator OEM product documentation. Confirm installed RF unit option for exact upper frequency and modulation bandwidth 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.

performance for wireless production and R&D.

Applications

Wireless device and base-station receiver testing, amplifier ACLR tests, and general vector-modulated RF stimulus.

Key Features

Vector signal generator platform

Selectable RF upper frequency options

Dual RF unit configuration path

Wide vector modulation bandwidth

IQproducer waveform generation ecosystem

Technical Specifications

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GPiB LAN USB Class	Remote interfaces class

PARAMETER	VALUE
Sibling Legacy Generator	MG3700A
Applications Class	LTE W-CDMA WLAN cellular production class

Notes

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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.