

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

ANRITSU

Anritsu MG3710E Vector Signal Generator

The Anritsu MG3710E is a vector signal generator with configurable RF coverage 100 kHz to 2.7, 4, or 6 GHz depending on 1st/2nd RF hardware options. OEM MG3710E product materials list ACLR -68 dBc (W-CDMA Test Model 1, 64 DPCH, less than or equal to +5 dBm), high power +23 dBm (CW, 400 MHz to 3 GHz), switching less than 600 us in list/sweep mode, and built-in 160/120 MHz baseband generation. Cellular and WLAN receiver testing, interferer generation, and dual-RF wanted-plus-interference scenarios with optional second RF. Level Linearity Typical: plus or minus 0.2 dB Baseband Bandwidth: 160 MHz / 120 MHz internal baseband generator Waveform Memory Optional: up to 1024 Msamples Dual Waveform Memory Option: MG3710E-048/078 class



MODEL

Anritsu MG3710E

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MG3710E

LISTING

<https://aumictechlabs.com/products/mg3710e-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu MG3710E is a vector signal generator engineered to produce complex modulated signals across multiple frequency bands, delivering RF and baseband performance for R&D, manufacturing, and quality assurance environments. It consolidates functionality typically requiring multiple synchronized instruments, reducing system complexity and cost while

supporting current and emerging wireless standards. Technical Specifications Frequency Coverage 100 kHz to 2.7 GHz, 4.0 GHz, or 6.0 GHz (selectable) Frequency converter options extend range to 44 GHz RF Performance Output power: +23 dBm (CW, 400 MHz to 3 GHz) Modulation bandwidth: 160 MHz (120 MHz internal baseband generator) SSB phase noise: -140 dBc/Hz nominal @ 100 MHz (20 kHz offset); -131 dBc/Hz typical @ 1 GHz; -125 dBc/Hz typical @ 2 GHz Level accuracy: ± 0.5 dB absolute; ± 0.2 dB linearity typical ACLR: -68 dBc (W-CDMA Test Model 1, 64DPCH, $\leq +5$ dBm) Switching speed: <600 μ s (List/Sweep mode) Baseband & Memory Built-in waveform generator: 20 kHz to 200 MHz sampling rate Waveform memory: 64 Msamples standard; 256 Msamples or 1024 Msamples optional Modulation Support Digital: 5G NR (sub-6 GHz), LTE-Advanced, W-CDMA/HSPA, GSM/EDGE, CDMA2000, TD-SCDMA, WLAN (802.11a/b/g/n/j/p/ac), Bluetooth, GPS/GLONASS/QZSS, DVB-T/H, ISDB-T/BS/CS/CATV, broadcast patterns, fading, multi-carrier, TDMA, DFS radar and waveform patterns Analog: AM, FM, phase modulation; pulse modulation supported Key Features 160 MHz modulation bandwidth accommodates 802.11ac when using MX370111A options Fast frequency switching enables efficient list and sweep operations Excellent phase noise performance across L-band and microwave frequencies Large waveform memory supports extended signal sequences without reloading Typical Applications Cellular device and infrastructure testing (5G, LTE, W-CDMA) WLAN and Bluetooth transceiver validation Satellite navigation receiver characterization Digital television and broadcast signal simulation Multi-standard protocol development and verification Compatibility & Integration Frequency conversion accessories enable operation beyond the native 6.0 GHz maximum. Standard RF output connects to external amplifiers and test fixtures for power scaling and integration into larger measurement systems.

Features & description

From manufacturer datasheet

High Power Output: +23 dBm (CW, 400 MHz to 3 GHz)

SSB Phase Noise Typical At 1 GHz 20 kHz Offset: less than -131 dBc/Hz ACLR WCDMA Test Model 1 64DPCH: -68 dBc at less than or equal to +5 dBm Switching Speed List Sweep: less than 600 us Absolute Level Accuracy: plus or minus 0.5 dB Level Linearity Typical: plus or minus 0.2 dB Baseband Bandwidth: 160 MHz / 120 MHz internal baseband generator Waveform Memory Standard: 64 Msamples Waveform Memory Optional: up to 1024 Msamples Dual Waveform Memory Option: MG3710E-048/078 class Reference Oscillator Standard Aging: plus or minus 1e-6 per year class High Stability Reference Option Aging: plus or minus 1e-7 per year class Rubidium Reference Option Aging: plus or minus 1e-10 per month class USB Power Sensor Support: up to two sensors Remote Interfaces: GPIB LAN USB class Form Factor: benchtop vector signal generator Brand: Anritsu Series Family: MG3710E IQ Input Output Option Class: MG3710E-017 on 1st RF class Maximum Reverse Input Power DC Class: plus or minus 50 Vdc max class Notes From Anritsu MG3710E Vector Signal Generator brochure and product introduction. Confirm installed RF frequency options and baseband memory options.

MG3710E Characteristics / Specifications

PARAMETER	VALUE
Model	MG3710E
First RF Frequency Options	100 kHz to 2.7 GHz (032), 4 GHz (034), or 6 GHz (036)
Second RF Frequency Options	100 kHz to 2.7/4/6 GHz (062/064/066)
High Power Output	+23 dBm (CW, 400 MHz to 3 GHz)
SSB Phase Noise Typical At 1 GHz 20 kHz Offset	less than -131 dBc/Hz
ACLR WCDMA Test Model 1 64DPCH	-68 dBc at less than or equal to +5 dBm
Switching Speed List Sweep	less than 600 us
Absolute Level Accuracy	plus or minus 0.5 dB
Level Linearity Typical	plus or minus 0.2 dB
Baseband Bandwidth	160 MHz / 120 MHz internal baseband generator
Waveform Memory Standard	64 Msamples
Waveform Memory Optional	up to 1024 Msamples
Dual Waveform Memory Option	MG3710E-048/078 class
Reference Oscillator Standard Aging	plus or minus 1e-6 per year class
High Stability Reference Option Aging	plus or minus 1e-7 per year class
Rubidium Reference Option Aging	plus or minus 1e-10 per month class
USB Power Sensor Support	up to two sensors
Remote Interfaces	GPIB LAN USB class
Form Factor	benchtop vector signal generator
Brand	Anritsu
Series Family	MG3710E
IQ Input Output Option Class	MG3710E-017 on 1st RF class
Maximum Reverse Input Power DC Class	plus or minus 50 Vdc max class
Bandwidth	160 MHz / 120 MHz internal baseband generator

MG3710E Specifications

PARAMETER	VALUE
Anritsu MG3710E Vector Signal Generator	Overview
Key Features	Frequency options to 2.7 4 or 6 GHz
Optional dual RF outputs	Wideband baseband 160 MHz / 120 MHz
Technical Specifications	Model: MG3710E

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
Model	MG3710E
First RF Frequency Options	100 kHz to 2.7 GHz (032), 4 GHz (034), or 6 GHz (036)
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Specifications	
PARAMETER	VALUE
ACLR WCDMA Test Model 1 64DPCH	-68 dBc at less than or equal to +5 dBm
Switching Speed List Sweep	less than 600 us
Absolute Level Accuracy	plus or minus 0.5 dB
Level Linearity Typical	plus or minus 0.2 dB
Baseband Bandwidth	160 MHz / 120 MHz internal baseband generator
Waveform Memory Standard	64 Msamples
Waveform Memory Optional	up to 1024 Msamples
Dual Waveform Memory Option	MG3710E-048/078 class
Reference Oscillator Standard Aging	plus or minus 1e-6 per year class
High Stability Reference Option Aging	plus or minus 1e-7 per year class
Rubidium Reference Option Aging	plus or minus 1e-10 per month class
USB Power Sensor Support	up to two sensors
Remote Interfaces	GPIB LAN USB class
Form Factor	benchtop vector signal generator
Brand	Anritsu
Series Family	MG3710E
IQ Input Output Option Class	MG3710E-017 on 1st RF class
Maximum Reverse Input Power DC Class	plus or minus 50 Vdc max class

Notes

From Anritsu MG3710E Vector Signal Generator brochure and product introduction. Confirm installed RF frequency options and baseband memory options.

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.