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Data Sheet

August 3, 2026

KEYSIGHT

Keysight 33622A 120MHz Waveform Generator

Keysight 33622A 120 MHz Waveform Generator The Keysight 33622A is a two-channel 120 MHz Trueform waveform generator in the 33600A Series. It offers higher bandwidth than the 80 MHz 33612A, with Trueform low jitter, 4 MSa standard arb memory (64 MSa Option MEM), and sample rates supporting 120 MHz outputs. Optional IQP baseband IQ player is available on 2-channel models. Dual-channel high-bandwidth function/arbitrary generation; IQ baseband playback (IQP); low-jitter stimulus to 120 MHz for RF baseband and mixed-signal validation. The Keysight 33622A is a two-channel 120 MHz Trueform waveform generator in the 33600A Series. It offers higher bandwidth than the 80 MHz 33612A, with Trueform low jitter, 4 MSa standard arb memory (64 MSa Option MEM), and sample rates supporting 120 MHz outputs. Optional IQP baseband IQ player is available on 2-channel models. Dual-channel high-bandwidth function/arbitrary generation; IQ baseband playback (IQP); low-jitter stimulus to 120 MHz for RF baseband and mixed-signal validation.



MODEL

Keysight 33622A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

33622A

LISTING

<https://aumictechlabs.com/products/33622a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 33622A is a dual-channel, 120 MHz waveform generator built on Trueform technology to deliver high-fidelity signal generation with minimal jitter and distortion. Operating from 1 μ Hz to 120 MHz, this benchtop instrument generates standard waveforms, arbitrary

signals, and complex modulated outputs with 1 GSa/s sampling and 14-bit amplitude resolution. The 33622A excels in electronic design validation, sensor simulation, and functional test environments where signal accuracy is critical.

Technical Specifications

Signal Generation
Frequency range: 1 μ Hz to 120 MHz Dual channels with independent control Sampling rate: 1 GSa/s Amplitude resolution: 14-bit Amplitude range: 1 mVpp to 10 Vpp Jitter: As low as 1 ps Phase noise: As low as -125 dBc/Hz Harmonic distortion: 5 $\times$ lower than traditional DDS generators

Waveform Memory Standard: 4 MSa per channel Optional upgrade: 64 MSa per channel

Signal Types Standard: Sine, Square, Ramp, Pulse, Triangle, Gaussian Noise, DC, PRBS (PN3 through PN32) Arbitrary: 17 built-in waveforms including Cardiac, Exponential Fall/Rise, Gaussian Pulse, Haversine, Lorentz, and Sinc User-defined arbitrary waveforms with multi-segment sequencing

Pulse generation to 100 MHz with <1 ps jitter

Modulation Modes AM, FM, PM, FSK, BPSK, PWM

Waveform summing: Up to four signals combined on dual-channel model

Key Features Trueform technology for superior signal integrity and fidelity Front-panel waveform editor with large color graphical display Waveform capture from oscilloscopes Waveform creation in MATLAB or Microsoft Excel External triggering supported

Compatibility & Integration Standard connectivity: USB, LAN (LXI-Core) Optional: GPIB Supported software: BenchVue, Keysight I/O Library, IVI-COM, VEE, LabVIEW Upgradeable architecture for evolving test requirements

Features & description

From manufacturer datasheet

Features

- Bandwidth: 120 MHz; 2 channels
- Trueform technology; edge jitter < 1 ps class
- Arb memory: 4 MSa/channel standard; 64 MSa with Option MEM
- Optional IQP IQ player
- Options: MEM, OCX, SEC, GPIB; bandwidth upgrades from 80 MHz models via 336BW2U path historically

33622A Characteristics / Specifications

PARAMETER	VALUE
Model	33622A
Manufacturer	Keysight Technologies
Instrument Type	Waveform / Arbitrary Waveform Generator (Trueform)
Family	33600A Series
Alias	33622A; Keysight 33622A Bandwidth and Channels
Maximum Frequency	120 MHz
Number of Channels	2
Sine frequency span	1 μ Hz to 120 MHz (per 33600A 120 MHz model rows) Sample Rate and Memory
Waveform Length	32 Sa to 4 MSa/channel (64 MSa with Option MEM)
Sequence Steps	512 per channel
Sample rate	Trueform rates supporting 120 MHz models (see 33600A datasheet; 33621A/22A class higher than 660 MSa/s 80 MHz row—use datasheet FS table for 33622A) Signal Fidelity
Edge Jitter	< 1 ps (Trueform literature)
THD	Trueform class ~0.03%
Amplitude Flatness	includes 80–120 MHz bands (± 0.40 / ± 0.50 dB class per VOUT—see datasheet) Modulation AM, FM, PM, FSK, BPSK, PWM, Sum; FM deviation to 60 MHz (33621A/22A) Options
MEM	64 MSa/channel; OCX; SEC; IQP (2-ch); GPIB Operational Notes Sibling of 33621A (1-ch 120 MHz). Prefer Keysight 33600A datasheet 5991-3272 for exact sample-rate and amplitude-flatness rows for 33622A.
Bandwidth	120 MHz; 2 channels
Arb memory	4 MSa/channel standard; 64 MSa with Option MEM
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33622A Specifications

PARAMETER	VALUE
Keysight 33622A 120 MHz Waveform Generator	Overview
Key Features	- Bandwidth: 120 MHz; 2 channels
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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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Options

MEM: 64 MSa/channel; OCX; SEC; IQP (2-ch); GPIB

Operational Notes

Sibling of 33621A (1-ch 120 MHz). Prefer Keysight 33600A datasheet 5991-3272 for exact sample-rate and amplitude-flatness rows for 33622A.

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.