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Data Sheet

August 6, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) 33600A Series Trueform Waveform Generators

The Keysight 33600A Series Trueform waveform generators redefine signal generation with their superior signal fidelity, versatility, and ease of use. These generators produce a wide array of signals, from basic sine waves to complex arbitrary waveforms, with exceptional precision and minimal harmonic distortion. Ideal for various applications including circuit testing, research, and education, the 33600A series ensures accurate and reliable signal generation.



MODEL

**Keysight / Agilent
33600A Series**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

33600A Series

LISTING

<https://aumictechlabs.com/products/33600a-series-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 33600A Series Trueform Waveform Generators deliver advanced signal generation by combining Direct Digital Synthesis and point-per-clock architectures. These instruments generate signals with exceptional fidelity - jitter below 1 ps and total harmonic distortion as low as 0.03% - making them ideal for circuit testing, research, and education applications where signal integrity is critical. Technical Specifications Signal Generation Architecture Trueform technology blending DDS and point-per-clock architectures Sampling rate up to 1 GSa/s Jitter performance less than 1 ps (>200× better than DDS generators) Total harmonic distortion as low as 0.03% (5×

lower than DDS) Arbitrary waveform memory: 4 M samples standard; optional 64 MSa per channel Waveform sequencing with up to 512 arbitrary segments Anti-aliasing filtering for accurate playback at any selected rate Bandwidth and Output Capabilities Available in 80 MHz and 120 MHz models Sine wave bandwidth up to 120 MHz Pulse bandwidth up to 100 MHz with 2.9 ns rise/fall times Independent leading and trailing edge control Square wave operation at full bandwidth Amplitude range 1 mVpp to 10 Vpp with 14-bit resolution Waveform and Modulation Features 17 standard waveforms plus arbitrary waveform capability Modulation types: AM, PWM, FM, PM, and PRBS (PN3 through PN32) Internal modulation frequency up to the fundamental waveform frequency Linear and logarithmic sweep modes Burst mode operation Variable bandwidth noise generation Waveform summing for dual-tone and noise-added signals Key Features Minimal harmonic distortion enables accurate component and circuit characterization Ultra-low jitter performance supports precision timing and synchronization applications Extended amplitude range down to 1 mVpp addresses low-signal testing scenarios Flexible arbitrary waveform memory accommodates complex signal definitions Full bandwidth square wave generation without mode-dependent bandwidth reduction Typical Applications Component and IC characterization Power supply and power electronics testing Audio and ultrasonic signal generation Education and research in signal processing Sensor excitation and response evaluation Compatibility & Integration Available in single-channel and dual-channel configurations. Two-channel models support four-signal summing capability.

Features & description

From manufacturer datasheet

Features

- Family bandwidths: 80 MHz or 120 MHz (model dependent)
- Channels: 1 or 2 per model
- Trueform technology; alias-protected arb
- Arb memory: up to 4 MSa/ch standard; 64 MSa with Option MEM
- Standard waveforms: sine, square, ramp, pulse, triangle, noise, PRBS, DC + built-in arbs
- Modulation and sweep/burst/gate modes (family class)
- Interfaces: LXI-C LAN, USB, GPIB; web UI; SCPI-1999
- Options: MEM, IQP (dual-ch), SEC, OCX
- Display: 4.3" color TFT WQVGA

33600ASERIES Characteristics / Specifications

PARAMETER	VALUE
Series	33600A
Manufacturer	Keysight Technologies
Instrument Type	Trueform Waveform Generator Series
Models	33611A, 33612A, 33621A, 33622A
Alias	33600A Series Frequency (published family class) 80 MHz models and 120 MHz models; amplitude-dependent max frequency on higher bands (e.g. reduced Vpp at highest sine frequencies) Operational Notes Prefer Keysight 33500B and 33600A Series datasheet. Confirm exact model (33611/12/21/22A) on the unit.
Family bandwidths	80 MHz or 120 MHz (model dependent)
Channels	1 or 2 per model
Arb memory	up to 4 MSa/ch standard; 64 MSa with Option MEM
Standard waveforms	sine, square, ramp, pulse, triangle, noise, PRBS, DC + built-in arbs
Interfaces	LXI-C LAN, USB, GPIB; web UI; SCPI-1999
Options	MEM, IQP (dual-ch), SEC, OCX
Display	4.3" color TFT WQVGA
Bandwidth	function/arb stimulus; RF IF baseband; dual-channel coupled applications; IQ playback (opt).

33600ASERIES Specifications

PARAMETER	VALUE
Key Features	- Family bandwidths: 80 MHz or 120 MHz (model dependent)
Technical Specifications	Series: 33600A
Frequency (published family class)	80 MHz models and 120 MHz models; amplitude-dependent max frequency on higher bands (e.g. reduced Vpp at highest sine frequencies)
Operational Notes	Prefer Keysight 33500B and 33600A Series datasheet. Confirm exact model (33611/12/21/22A) 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

Specifications

PARAMETER	VALUE
Series	33600A
Manufacturer	Keysight Technologies
Instrument Type	Trueform Waveform Generator Series
Models	33611A, 33612A, 33621A, 33622A
Alias	33600A Series

Frequency (published family class)

80 MHz models and 120 MHz models; amplitude-dependent max frequency on higher bands (e.g. reduced Vpp at highest sine frequencies)

Operational Notes

Prefer Keysight 33500B and 33600A Series datasheet. Confirm exact model (33611/12/21/22A) 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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.