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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E1445A Arbitrary Function Generator

Agilent E1445A Arbitrary Function Generator The Agilent/Keysight E1445A isaC-size, 1-slot, message-based VXI arbitrary function generator. OEM materials specify 13-bit resolution at 40 MSa/s with 256 kSa of waveform memory for high-speed arb/function stimulus in VXI systems. High-speed arbitrary waveform generation, standard function waveforms, and automated stimulus in C-size VXI ATE.

Companion summing amplifier path with E1446A The Agilent/Keysight E1445A isaC-size, 1-slot, message-based VXI arbitrary function generator. OEM materials specify 13-bit resolution at 40 MSa/s with 256 kSa of waveform memory for high-speed arb/function stimulus in VXI systems. High-speed arbitrary waveform generation, standard function waveforms, and automated stimulus in C-size VXI ATE. Companion summing amplifier path with E1446A Waveform Types: arbitrary and standard functions



MODEL

**Agilent / Keysight
E1445A**

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

E1445A

LISTING

<https://aumictechlabs.com/products/e1445a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight E1445A is a VXI-based arbitrary function generator module designed to generate custom and standard waveforms for precision signal generation in test and measurement systems. This C-size, 1-slot message-based module delivers 13-bit resolution at up to 40 MSa/s, enabling creation of complex waveforms through its deep memory architecture and advanced sequencing

capabilities. Technical Specifications Module Type: VXI C-size, 1-slot, message-based Resolution: 13-bit Maximum Sample Rate: 40 MSa/s Waveform Segment Memory: 256 kSa Sequence Memory: 32 k-segment Weight: Approximately 5 lbs Key Features Arbitrary waveform generation with programmable parameters Standard function signal generation capability Deep memory storage for up to 128 waveforms Memory sequencer for complex waveform construction Segments repeatable up to 4,096 times Sequences repeatable from 1 to 64,000 times Build large, complex waveforms from small segments Waveform and frequency hopping capability Sweep function support SCPI programming interface Direct access to high-speed registers Built-in self-test functionality Typical Applications The E1445A excels in applications requiring custom signal generation, multi-segment waveform synthesis, frequency-hopped signal testing, and complex sequence automation. Its sequencer enables creation of sophisticated test patterns without external control loops. Compatibility & Integration The module requires a VXI mainframe for operation - typically an HP C-size VXI mainframe. Integration relies on SCPI programming and the module's VXI messaging interface. Complete documentation includes user manual, SCPI programming guide, service manual, and component-level schematics. Note: This product is discontinued due to EU RoHS non-compliance, though Keysight continues service and support through its support life end.

E1445A Characteristics / Specifications

PARAMETER	VALUE
DAC Resolution	13 bits
Maximum Sample Rate	40 MSa/s
Waveform Memory	256 kSa
Module Size	C
Slots Occupied	1
VXI Device Type	message based
Product Family	E144x VXI sources
Programming	SCPI
Waveform Types	arbitrary and standard functions
Companion Module	E1446A summing amplifier / DAC
Connectors	P1/P2
Operating Temperature Class	0 to 55 C
Triggering	VXI TTLTrg and external trigger class
Output Path	front panel analog outputs
Marker Sync Class	marker and sync outputs class
Sweep Modes Class	supported sweep class
Modulation Class	FSK/hop class features per family
Calibration	onboard/system calibration path
Form Factor Depth	C-size
Related BSize AFG	E1340A
Related Message Based AFG	E1441A family
Memory Depth Advantage	256 kSa versus 16 kSa on E1340A
Sample Rate Class	40 MSa/s class arb
Operating temperature	Class: 0 to 55 C

E1445A Specifications

PARAMETER	VALUE
Agilent E1445A Arbitrary Function Generator	Overview
Key Features	13 bit 40 MSa/s architecture
Message based SCPI control	Companion summing amplifier path with E1446A
Technical Specifications	DAC Resolution: 13 bits

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 0 to 55 C
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Operating Temperature Class	0 to 55 C
Triggering	VXI TTLTrg and external trigger class
Output Path	front panel analog outputs
Marker Sync Class	marker and sync outputs class
Sweep Modes Class	supported sweep class
Modulation Class	FSK/hop class features per family
Calibration	onboard/system calibration path
Form Factor Depth	C-size
RelatedBSize AFG	E1340A
Related Message Based AFG	E1441A family
Memory Depth Advantage	256 kSa versus 16 kSa on E1340A
Sample Rate Class	40 MSa/s class arb Notes Resolution, sample rate, memory, and form factor from Agilent/HP E1445A OEM product descriptions and VXI source family literature. Confirm amplitude/accuracy appendix values in the E1445A user manual.

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
DAC Resolution	13 bits
Maximum Sample Rate	40 MSa/s
Waveform Memory	256 kSa
Module Size	C
Slots Occupied	1
VXI Device Type	message based
Product Family	E144x VXI sources
Programming	SCPI
Waveform Types	arbitrary and standard functions
Companion Module	E1446A summing amplifier / DAC
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Modulation Class	FSK/hop class features per family
Calibration	onboard/system calibration path
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RelatedBSize AFG	E1340A
Related Message Based AFG	E1441A family
Memory Depth Advantage	256 kSa versus 16 kSa on E1340A
Sample Rate Class	40 MSa/s class arb
Notes	
Resolution, sample rate, memory, and form factor from Agilent/HP E1445A OEM product descriptions and VXI source family literature. Confirm amplitude/accuracy appendix values in the E1445A user manual.	

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

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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.