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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E1440A VXI 21 MHz Synthesized Function/Sweep Generator

Agilent E1440A Synthesized Function Sweep Generator The HP/Agilent E1440A isaC-size, 2-slot, message-based synthesized function/sweep generator. OEM descriptions list sine, square, triangle, and ramp outputs with 11-digit frequency resolution and auxiliary SYNC, X-Drive, Marker, and Reference ports. Precision synthesized function and sweep stimulus for VXI automated test, audio/RF baseband generation, and marker-synchronized sweeps. Auxiliary Outputs: SYNC, X Drive, Marker, Reference The HP/Agilent E1440A isaC-size, 2-slot, message-based synthesized function/sweep generator. OEM descriptions list sine, square, triangle, and ramp outputs with 11-digit frequency resolution and auxiliary SYNC, X-Drive, Marker, and Reference ports. Precision synthesized function and sweep stimulus for VXI automated test, audio/RF baseband generation, and marker-synchronized sweeps. Auxiliary Outputs: SYNC, X Drive, Marker, Reference Triggering: VXI and external sweep triggers class



MODEL

**Agilent / Keysight
E1440A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E1440A

LISTING

<https://aumictechlabs.com/products/e1440a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight E1440A is a C-size, two-slot VXI synthesized function and sweep generator delivering precise waveform generation to 21 MHz. This message-based module generates sine, square, triangle, and ramp waveforms with 11-digit frequency resolution and high stability across a

range from 1 μ Hz to 21 MHz (sine) and up to 11 kHz for complex waveforms. The E1440A supports multi-interval sweep and multi-marker modes, amplitude and phase modulation, and programmable relative phase synchronization for multi-phase signal generation when cascaded with companion modules.

Technical Specifications

Waveforms: Sine, Square, Triangle, Negative Ramp, Positive Ramp

Frequency Range: Sine 1 μ Hz to 21 MHz; Square 1 μ Hz to 11 MHz; Triangle and Ramps 1 μ Hz to 11 kHz; TTL Clock 1 μ Hz to 60 MHz

Frequency Resolution: 11-digit resolution with high stability

Output Amplitude: 1 mVp-p to 10 Vp-p in 8 ranges; high-voltage and isolated output options available

Modulation: AM and PM capabilities

Sweep: Multi-interval and multi-marker sweep modes

Memory: Non-volatile save-recall for test setup storage

Frequency Counter: DC to 200 MHz

Key Features

- Programmable relative phase output for synchronization with companion modules
- Multi-phase signal generation through cascaded E1440A units
- GPIO support for arbitrary function generator operation with user-defined waveforms
- SCPI-compliant command set
- Isolated floating outputs option

Typical Applications

- Precision waveform generation in VXI test systems
- Low-distortion sine wave synthesis and characterization
- Modulation testing and signal conditioning
- Sweep-based frequency response measurements
- Multi-phase signal generation for device testing

Compatibility & Integration

The module integrates into VXIbus systems as a message-based instrument and accepts GPIB commands for extended functionality. Standard VXI backplane integration supports system-level synchronization and control.

E1440A Characteristics / Specifications

PARAMETER	VALUE
Module Size	C
Slots Occupied	2
VXI Device Type	message based
Frequency Resolution	11 digits
Waveforms	sine, square, triangle, ramp
Sweep	yes
Auxiliary Outputs	SYNC, X Drive, Marker, Reference
Main Output	synthesized function output
Programming	SCPI
Connectors	P1/P2
Product Family	E144x VXI sources
Operating Temperature Class	0 to 55 C
Triggering	VXI and external sweep triggers class
Reference Input Output	reference port provided
Marker Output	yesXDrive Output: yes
Sync Output	yes
Form Factor	2 slot C-size
Calibration	synthesizer calibration path
Related Arb Module	E1445A
Related Summing Amp	E1446A
Amplitude Path Class	calibrated analog output class
Frequency Sweep Modes Class	linear/log sweep class
Operating temperature	Class: 0 to 55 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
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Form Factor	2 slot C-size
Calibration	synthesizer calibration path
Related Arb Module	E1445A
Related Summing Amp	E1446A
Amplitude Path Class	calibrated analog output class
Frequency Sweep Modes Class	linear/log sweep class Notes Slot count, waveform set, 11-digit resolution, and auxiliary port list from HP/Agilent E1440A OEM descriptions. Use the E1440A manual for exact frequency/amplitude range tables.

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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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.