

**Aumictech**

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Data Sheet

August 12, 2026

FLUKE

Fluke 294-U Arbitrary Waveform Generator and Manager, 100 MS/s, 4 Chan

The Fluke 294-U is a 4-channel Arbitrary Waveform Generator and Manager, capable of generating signals up to 100 MS/s. It provides versatile waveform creation and manipulation for diverse electronic testing and design applications. Ideal for engineers and technicians needing precise signal control.



MODEL

Fluke 294-U

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

294-U

LISTING

<https://aumictechlabs.com/products/294-u-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 294-U is a 12-bit, 4-channel arbitrary waveform generator operating at 100 MS/s with a true variable clock architecture that minimizes jitter and enables advanced waveform linking, looping, and sequencing. It generates arbitrary waveforms, standard functions, pulse trains, swept signals, DTMF tones, and modulated signals for electronic testing and design applications. Technical Specifications Arbitrary Waveform Generation Sampling frequency: 100 MS/s Vertical resolution: 12 bits Maximum waveform length: 1 M points per channel Waveform memory: Removable Compact Flash Card with effectively unlimited storage Waveform sequencing: Up to 1024 segments Loop counts: Up to 32,768 repetitions Definition methods: Front panel, RS-232, USB, GPIB, or direct PC memory card write Editing tools: Waveform insert, point edit, line draw, amplitude adjust, and invert functions Function Generation Standard waveforms:

Sine, square, triangle, haversine, ramp, pulse, $\sin(x)/x$, cosine, havercosine Maximum sine frequency: 40 MHz Maximum square frequency: 50 MHz Frequency accuracy: 10 ppm Implementation: Direct Digital Synthesis (DDS) Pulse Generation Maximum pulse frequency: 10 MHz Pulse trains: Up to 10 independent pulses per train Minimum pulse width: 10 ns Per-pulse control: Independent width, delay, and level definition Modulation and Signal Capabilities Amplitude modulation (AM): Supported Sweep generation: Wide range sweep capability Tone generation: Precision DTMF generation with triggered switching between up to 16 frequencies Trigger generation: Built-in gated and triggered burst modes Signal summing: Inter-channel summing supported Output Specifications Channels: 4 independent or linked outputs Maximum amplitude (50 Ω): 10 Vpp Amplitude notation: Vpk-pk, Vrms, or dBm selectable for open circuit (Hi Z) or 50 Ω /60 Ω loads Key Features True variable clock minimizes DDS-related jitter Up to 1 M-point waveform memory per channel Waveform Manager Plus software for Windows-based creation and editing Compact Flash Card storage for portable waveform libraries Four fully independent channels with optional linking Typical Applications Electronic component testing, signal simulation, design validation, DTMF generation, pulse train characterization, and frequency sweep testing. Compatibility & Integration Waveforms defined via RS-232, USB, or GPIB interfaces, or written directly to removable memory cards for offline creation and loading.

Features & description

From manufacturer datasheet

Features

- Four independent or linkable channels
- True variable-clock arb architecture (not DDS-arb jitter limited)
- Waveform sequencing up to 1024 segments
- GPIB, RS-232, and USB interfaces
- Compact Flash unlimited waveform storage
- Waveform Manager Plus for Windows included with family kits

Applications

- Complex arbitrary stimulus for ATE and R&D
- Multi-channel synchronized waveform sequencing
- Precision DTMF / tone-switching and pulse-train patterns
- Bench replacement for multi-box function/arb stacks

294U Characteristics / Specifications

PARAMETER	VALUE
Model	294-U
Manufacturer	Fluke
Instrument Type	Arbitrary Waveform Generator
Alias	294-U; Fluke 294-U; 294
Channels	4
Sample rate	100 MS/s
Vertical resolution	12 bits
Waveform memory	1 M points per channel
Minimum waveform size	8 points
Sample clock range	100 mHz to 100 MHz
Sine (DDS) range	0.1 mHz to 40 MHz
Square (DDS) range	to 50 MHz
Amplitude into 50 ohm	2.5 mV to 10 V p-p
Sequence segments	up to 1024
Segment loop count	up to 32768
Sequence repeats	up to 1048575 or continuous
Pulse pattern resolution class	10 ns
Interfaces	GPIO, RS-232, USB
Storage	Compact Flash card
Mains class	115 V (-U variant) Notes Specs from Fluke 291/292/294 Universal Waveform Generators datasheet/manual. Confirm CF card and Waveform Manager media with 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	
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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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.