

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 53132A Universal Frequency Counter, 12 digits/s

The Agilent/Keysight 53132A matches the 53131A feature set with higher resolution: up to 12 digits per second frequency/period resolution and 150 ps time interval resolution, plus advanced arming modes for time interval. Channels 1 and 2 cover 225 MHz, with optional Channel 3 to 3, 5, or 12.4 GHz. GPIB SCPI and statistics/math/limit testing are standard. High-resolution frequency standards work, precision time-interval and phase measurements in ATE, RF production with optional microwave Channel 3, and automated limit testing with pass/fail signaling. Option 050 Channel 3 Range: 200 MHz to 5 GHz Option 124 Channel 3 Range: 200 MHz to 12.4 GHz External Timebase Input Frequencies: 10 MHz only on 53132A GPIB Throughput: up to 200 fully formatted measurements per second



MODEL

**HP / Agilent
53132A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

53132A

LISTING

<https://aumictechlabs.com/products/53132a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 53132A is a universal frequency counter delivering 12-digit resolution and 150 ps time interval measurement capability. Designed for demanding metrology, R&D, and production environments, it measures frequency from DC to 225 MHz on two standard channels with real-time digital signal processing and integrated statistical analysis. An optional third channel extends frequency measurement to 3 GHz, 5 GHz, or 12.4 GHz, accommodating RF and microwave

applications. Technical Specifications The instrument measures frequency, period, ratio, time interval, pulse width, rise/fall time, phase angle, duty cycle, totalize, and peak voltage. Frequency resolution reaches 12 digits per second across both channels. Time interval resolution is 150 ps. Input impedance selects between 1 M Ω or 50 Ω with AC or DC coupling. Input sensitivity ranges from 20 mVrms (DC to 100 MHz) to 40 mVrms (200–225 MHz), with dynamic range of 20 mV to ± 5 Vac. A switchable 100 kHz low-pass filter reduces noise; auto trigger level setting operates from 0 to 100% in 10% steps. The standard timebase maintains accuracy better than 3×10^{-7} per month. Optional oven timebases include medium stability (5×10^{-6} temperature stability, 4×10^{-8} per day aging), high stability (2×10^{-7} temperature stability, 5×10^{-10} per day aging), and ultra-high stability for the 53132A (2.5×10^{-9} temperature stability, 1×10^{-10} per day aging). Key Features Dual 225 MHz input channels; optional third channel to 12.4 GHz Real-time measurement processing at up to 200 measurements per second Built-in statistics: average, minimum, maximum, standard deviation Automated limit testing with pass/fail indication 20 stored front-panel setups for rapid configuration recall GPIB (IEEE-488) with SCPI control plus RS-232 talk-only interface Typical Applications Frequency and timing verification in component characterization, signal integrity analysis, oscillator stability assessment, and production test environments. Compatibility & Integration GPIB standard interface supports SCPI-compatible programmability with data transfer at 200 measurements per second. RS-232 connection enables printer and computer integration.

53132A Characteristics / Specifications

PARAMETER	VALUE
Channels 1 and 2 Bandwidth	225 MHz
Frequency Period Resolution	up to 12 digits per second
Time Interval Resolution	150 ps
Frequency Measurement Range Ch1 Ch	0.1 Hz to 225 MHz
DC Coupled Range	DC to 225 MHz
AC Coupled 50 Ohm	1 MHz to 225 MHz
AC Coupled 1 Mohm	30 Hz to 225 MHz
FM Tolerance	25%
Sensitivity DC to 100 MHz	20 mVrms to ± 5 V AC+DC
Sensitivity 100 to 200 MHz	30 mVrms to ± 5 V AC+DC
Sensitivity 200 to 225 MHz	40 mVrms to ± 5 V AC+DC
Trigger Level Range	± 5.125 V
Trigger Level Resolution	5 mV
Input Impedance	1 Mohm or 50 ohm
Low Pass Filter	100 kHz switchable
External Timebase Input Frequencies	10 MHz only on 53132A
GPIB Throughput	up to 200 fully formatted measurements per second
Bandwidth	225 MHz

53132A Specifications

PARAMETER	VALUE
HP Agilent 53132A Universal Counter	Overview
Key Features	12 digit/s resolution class versus 10 digit/s on 53131A
Advanced TI arming modes beyond 53131A	Same measurement catalog as 53131A including rise/fall, duty cycle, peak voltage
Technical Specifications	Channels 1 and 2 Bandwidth: 225 MHz

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
Channels 1 and 2 Bandwidth	225 MHz
Frequency Period Resolution	up to 12 digits per second
Time Interval Resolution	150 ps
Frequency Measurement Range Ch1 Ch2	0.1 Hz to 225 MHz
DC Coupled Range	DC to 225 MHz
AC Coupled 50 Ohm	1 MHz to 225 MHz
AC Coupled 1 Mohm	30 Hz to 225 MHz
FM Tolerance	25%
Sensitivity DC to 100 MHz	20 mVrms to ±5 V AC+DC
Sensitivity 100 to 200 MHz	30 mVrms to ±5 V AC+DC
Sensitivity 200 to 225 MHz	40 mVrms to ±5 V AC+DC
Trigger Level Range	±5.125 V
Trigger Level Resolution	5 mV
Input Impedance	1 Mohm or 50 ohm
Low Pass Filter	100 kHz switchable

Option 030 Channel 3 Range: 100 MHz to 3 GHz
Option 050 Channel 3 Range: 200 MHz to 5 GHz
Option 124 Channel 3 Range: 200 MHz to 12.4 GHz
External Timebase Input Frequencies: 10 MHz only on 53132A
GPIB Throughput: up to 200 fully formatted measurements per second
Option 010 Aging Per Day: less than 5 x 10^-10 after 30 days
Option 012 Ultra High Oven: available on 53132A

Notes
Specs from Keysight/Agilent 53131A/132A/181A counters data sheet. Advanced arming and Option 012 distinguish 53132A from 53131A; verify installed options on the unit.

Ordering Information

OPTION	DESCRIPTION
Option 012	Technical Specifications
Option 030	Channel 3 Range: 100 MHz to 3 GHz
Option 050	Channel 3 Range: 200 MHz to 5 GHz
Option 124	Channel 3 Range: 200 MHz to 12.4 GHz
Option 010	Aging Per Day: less than 5×10^{-10} after 30 days

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>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.