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Data Sheet

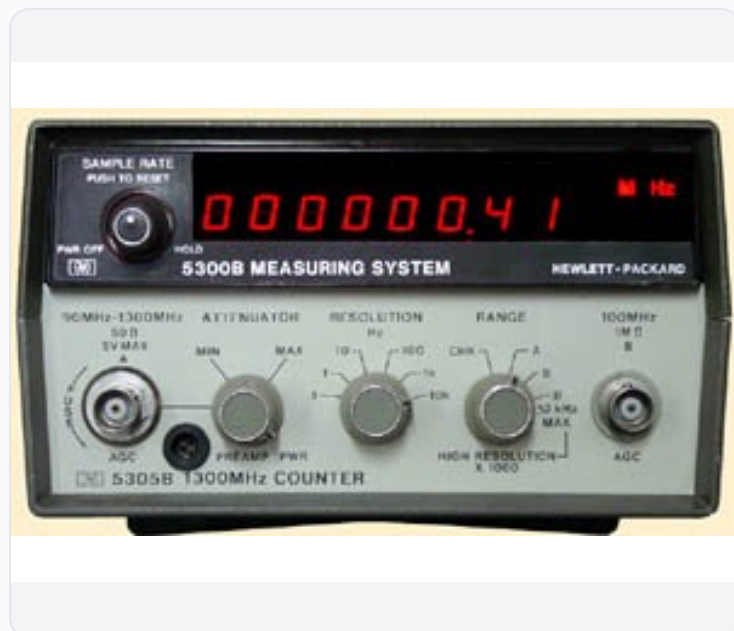
August 14, 2026

HP / AGILENT

HP / Agilent 5300B COUNTER MAINFRAME

HP Agilent 5300B Electronic Counter Mainframe The HP 5300B is the eight-digit 7-segment display mainframe of the 5300 measurement system. Snap-on function modules provide frequency timer and other measurements; the 5312A snap-between module adds HP-IB. Modular frequency and time measurements with interchangeable plug-ons, portable counting with battery pack options, and systems counting via 5312A HP-IB. Compatible with 5300-series snap-on modules The HP 5300B is the eight-digit 7-segment display mainframe of the 5300 measurement system. Snap-on function modules provide frequency timer and other measurements; the 5312A snap-between module adds HP-IB. Modular frequency and time measurements with interchangeable plug-ons, portable counting with battery pack options, and systems counting via 5312A HP-IB. Compatible with 5300-series snap-on modules

Mainframe Role: Counter measurement system host



MODEL

HP / Agilent 5300B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

5300B

LISTING

<https://aumictechlabs.com/products/5300b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 5300B Counter Mainframe is a modular measurement platform that provides the core infrastructure for frequency and time interval measurements. It delivers essential system power, a stable 10 MHz reference timebase, an 8-digit LED display, counting logic, and timing control - forming a foundation for configuration with plug-on modules tailored to specific measurement requirements. Technical Specifications Display 8-digit LED display assembly

Timebase Frequency: 10 MHz Aging rate: $<3 \times 10^{-7}$ per month Temperature stability: $<5 \times 10^{-8}$ (0°C to 50°C); typically $<2 \times 10^{-6}$ (15°C to 40°C) Line voltage stability: 1×10^{-7} for $\pm 10\%$ line variation Oscillator Output 10 MHz, ~ 1 Vrms at rear BNC with 100 Ω source impedance External Timebase Input Frequency range: 1 MHz to 10 MHz Input level: 1 Vrms into 50 Ω Requires 10 MHz for correct display operation Power Input: 115 to 230 V, +13% to -17%, 48 to 440 Hz Consumption: 25 VA maximum (5 W mainframe nominal) Environmental Operating temperature: 0°C to 50°C Physical Dimensions: 89 mm H $\times$ 160 mm W $\times$ 248 mm D (with snap-on module) Weight: 1.5 kg net; 2.5 kg shipping All solid-state construction in hard metal enclosure Key Features Modular plug-on architecture for customized measurement configurations Stable 10 MHz internal reference with tight temperature and aging specifications Compact form factor: 3.5" $\times$ 6.25" $\times$ 9.25" Low mainframe power draw enables extended operation Three-conductor power cord with earth ground protection Typical Applications Frequency measurement, period analysis, time interval characterization, and ratio-based counting across diverse electronic testing and calibration workflows. Compatibility & Integration The 5300B accepts plug-on counter modules including HP 5301A (10 MHz), 5302A (50 MHz universal), 5305B (1.3 GHz), 5306A (multimeter/6-digit), 5307A (high resolution), 5308A, and 5311B (digital-analog converter). Optional HP 5310 battery pack available.

5300B Characteristics / Specifications

PARAMETER	VALUE
Display Digits	8
Display Type	7 segment
Mainframe Role	Counter measurement system host
Timebase	Standard crystal or optional TCXO
External Timebase Input	yes
Digital Output From Mainframe	none (use 5312A for HP-IB)
Compatible Modules Examples	5308A 5307A 5304A 5305B
Module Interface	Snap-on front measurement module
Snap Between Interface	5312A HP-IB
Form Factor	Portable modular mainframe
Power	AC line; battery pack options in system
System Family	HP 5300A/B measurement system
Display With 5308A	8 digits
Intended Use	Frequency period ratio time interval via plug-ons
Expandability	Multiple snap-on function modules
Bench Use	Standalone with selected plug-on
Systems Use	With 5312A HP-IB module
Timebase Output Path	Via compatible modules
Check Function	Supported through plug-on self-check modes
Operating Style	Manual front-panel module switches
BCD Output Contrast	Present on 5300A not on bare 5300B
Portability	Yes with 5310A battery pack class

5300B Specifications

PARAMETER	VALUE
HP Agilent 5300B Electronic Counter Mainframe	Overview
Key Features	8 digit 7 segment display
Technical Specifications	Display Digits: 8
Notes	Mainframe characteristics from HP 5300A/B measurement system literature. Numeric frequency limits belong to the installed snap-on module.

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

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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.