

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 8130A High-Speed Pulse Generator, 300 MHz

The HP/Agilent 8130A is a programmable 300 MHz pulse generator with variable transition times down to less than 1 ns and 10 ps timing resolution. OEM product literature positions clean variable edges for BICMOS, ECL, and ECLips testing, amplifier slew-rate checks, and dual-channel clock/data cell characterization when Option 020 is fitted. Used for high-speed digital parametric tests to 300 MHz, dual-signal clock and data stimulus via double-pulse or dual-channel configurations, analog bandwidth and slew-rate assessment, and automated production test with HP-IB control. Amplitude into 50 ohm maximum: 5 V peak to peak Channel expansion: dual-channel Option 020 Instrument height class: full-rack programmable pulse generator Numeric headline specifications are from Agilent/HP 8130A product datasheet summaries. Full timing accuracy and level-window tables follow the high-speed 8130/8131 generator family manuals; confirm detailed accuracy limits on the unit certificate when required.



MODEL

HP / Agilent 8130A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

8130A

LISTING

<https://aumictechlabs.com/products/8130a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 8130A is a fully programmable high-speed pulse generator delivering precise pulse generation up to 300 MHz with 10 ps timing resolution. It has variable pulse widths from 1.5

ns to 99.9 ms, adjustable delays from 0 to 99.9 ms, and transition times down to 1 ns, making it ideal for characterizing high-speed digital ICs and analog circuits. The instrument offers 5 V peak-to-peak output into 50 Ω with selectable offset control, coupled with flexible external triggering and gating modes for advanced test applications.

Technical Specifications

Maximum Repetition Rate: 300 MHz Timing Resolution: 10 ps Pulse Width Range: 1.5 ns to 99.9 ms; accuracy $\pm 5\%$ ± 250 ps Delay Range: 0 to 99.9 ms; accuracy $\pm 5\%$ ± 250 ps Variable Transition Times: 1 ns minimum (10% to 90%); $\pm 20\%$ linearity for 1–1.99 ns transitions Period Range: 3.33 ns to 99.9 ms; accuracy $\pm 5\%$ ± 100 ps Output Amplitude: 5 V peak-to-peak into 50 Ω ; 10 mV to 10 V with 20 dB attenuator Offset Range: -4.95 V to $+4.95$ V into 50 Ω Source Impedance: 50 Ω $\pm 2.5\%$ / 50 Ω $\pm 12\%$ Level Accuracy: $\pm 1\%$ of programmed value $\pm 3\%$ of amplitude Settling Time: 20 ns at fastest transition

Key Features

HP-IB (GPIB) programmable control External input modes: Trigger, Gate, Burst, and External Width Burst mode capability: 1 to 9999 pulses with 5 ns minimum period Selectable trigger slopes: positive or negative Trigger output levels: 2.4 V high / 0.3 V low into 50 Ω Multiple operating modes: Manual, Auto, 1 Pulse, Trigger, Gate, Burst, and External Width External input impedance: 50 Ω ± 250 ; maximum ± 7 V / ± 10 V; DC to 300 MHz Typical

Applications

High-speed pulse characterization, digital IC testing, analog circuit validation, and timing-critical measurements on contemporary semiconductor devices.

Compatibility & Integration

Full HP-IB programmability enables integration into automated test systems and laboratory environments requiring precise, repeatable pulse generation.

8130A Characteristics / Specifications

PARAMETER	VALUE
Maximum repetition rate	300 MHz
Minimum variable transition time	less than 1 ns
Timing resolution	10 ps
Differential output amplitude maximum into 50 ohm	5 Vpp
Number of channels standard	1
Rear panel connectors option	Option 001
Rack flange kit option	Option 908
Additional manuals option	Option 916
Target logic families	BICMOS, ECL, ECLips
Primary stimulus modes	pulse and double pulse
Control interface	programmable HPIB family
Output structure	differential
Minimum edge speed class	sub-nanosecond variable
Maximum specified rate	300 MHz
Timing granularity	10 ps
Amplitude into 50 ohm maximum	5 V peak to peak
Channel expansion	dual-channel Option 020
Connector relocation	rear Option 001
Instrument height class	full-rack programmable pulse generator
Maximum rate	300 MHz
Edge speed	less than 1 ns variable
Timing step	10 ps
Diff amplitude max 50 ohm	5 Vpp

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
Maximum repetition rate	300 MHz
Minimum variable transition time	less than 1 ns
Timing resolution	10 ps
Differential output amplitude maximum into 50 ohm	5 Vpp
Number of channels standard	1
Optional second channel: Option 020	
Specifications	
PARAMETER	VALUE
Rear panel connectors option	Option 001
Rack flange kit option	Option 908
Additional manuals option	Option 916
Target logic families	BICMOS, ECL, ECLips
Primary stimulus modes	pulse and double pulse
Control interface	programmable HPIB family
Output structure	differential
Minimum edge speed class	sub-nanosecond variable
Maximum specified rate	300 MHz
Timing granularity	10 ps
Amplitude into 50 ohm maximum	5 V peak to peak
Channel expansion	dual-channel Option 020
Connector relocation	rear Option 001
Instrument height class	full-rack programmable pulse generator
Maximum rate	300 MHz
Edge speed	less than 1 ns variable
Timing step	10 ps

PARAMETER	VALUE
Diff amplitude max 50 ohm	5 Vpp
Option second channel: 020 Option rear connectors: 001	
Notes Numeric headline specifications are from Agilent/HP 8130A product datasheet summaries. Full timing accuracy and level-window tables follow the high-speed 8130/8131 generator family manuals; confirm detailed accuracy limits on the unit certificate when required.	

Ordering Information

OPTION	DESCRIPTION
Option 020	is fitted.
Option 908	Additional manuals option: Option 916

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.