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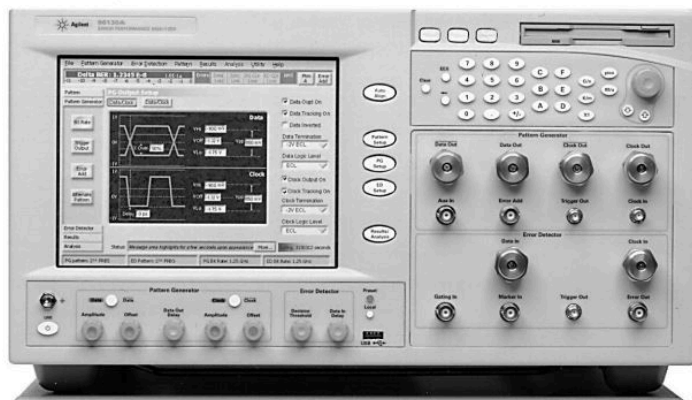
Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 86130A BitAnalyzer Error Performance Analyzer 3.6 Gb/s general-purpose bit

Pattern And Clock: determined by installed pattern-generator/error-detector plug-ins
 Application: high-speed BER and error-performance analysis User Interface: dedicated BitAlyzer front panel Environmental, power, weight, and GPIB address from Agilent 86130A BitAlyzer Quick Start Guide Table 1-1/1-5. Bit-rate, amplitude, and jitter numeric tables are on the installed 86130A plug-in specification sheets, not the mainframe install chapter.
 Application: high-speed BER and error-performance analysis User Interface: dedicated BitAlyzer front panel Environmental, power, weight, and GPIB address from Agilent 86130A BitAlyzer Quick Start Guide Table 1-1/1-5. Bit-rate, amplitude, and jitter numeric tables are on the installed 86130A plug-in specification sheets, not the mainframe install chapter.



MODEL

**Agilent / Keysight
86130A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

86130A

LISTING

<https://aumictechlabs.com/products/86130a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 86130A BitAnalyzer is a general-purpose bit error rate tester (BERT) for error performance analysis of digital communication systems up to 3.6 Gb/s. It delivers real-time bit error detection, jitter analysis, and programmable pattern generation for characterizing high-speed digital links and verifying communication infrastructure integrity. Technical Specifications

Data Rate: Up to 3.6 Gb/s Bit Error Rate Measurement: Real-time measurement and analysis Error Detection: Single-bit errors, burst errors, pattern-dependent errors Pattern Generation: Programmable data pattern generation Jitter Analysis: Signal jitter characterization Clock and Data Recovery: Multiple CDR modes for signal alignment Input Signal Levels: Standard digital signal levels per applicable communication standards Output Signal Levels: Configurable generated pattern levels Impedance: 50-ohm differential or single-ended Data Connectors: High-speed coaxial (SMA or equivalent) Clock Connectors: Dedicated external clock synchronization Control Interfaces: GPIB (IEEE 488.2), Ethernet, USB options Display: Integrated front-panel for real-time measurements Form Factor: Benchtop instrument

Key Features Real-time BER measurement and error characterization Multiple error detection modes including burst error identification Integrated programmable pattern generation for flexible testing Jitter analysis capabilities for signal quality assessment Configurable CDR synchronization for precise clock recovery Remote control and automation via GPIB and Ethernet interfaces

Typical Applications Ethernet and SONET/SDH system verification Fibre Channel link testing PCI Express device characterization High-speed digital communication system development and validation Component and subsystem error performance evaluation

Compatibility & Integration Designed to test systems conforming to digital communication standards including Ethernet, SONET/SDH, Fibre Channel, and PCI Express. Compatible with Agilent/Keysight test and measurement software for enhanced analysis and data logging.

86130A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Error performance analyzer (BERT mainframe)
Series Family	Agilent 86130A BitAlyzer
Operating Temperature	10 C to plus 45 C
Nonoperating Temperature	minus 40 C to plus 70 C
Operating Humidity	up to 95 percent non-condensing at plus 40 C, 5 day soak
Nonoperating Humidity	up to 90 percent RH at plus 65 C, 24 hours
Operating Shock	30 g half sine, 11 ms pulse (type tested)
Operating Vibration Random	0.21 g rms, 5 to 500 Hz, 10 minutes per axis (type tested)
Operating Vibration Sine	0.5 g peak, 5 to 500 Hz, 1 octave/min (type tested)
Emc	CISPR 11, IEC 801-2/3/4, IEC 555-2 class
Line Voltage	90 to 264 VAC
Line Frequency	47 to 66 Hz
Power Consumption	less than 500 VA
Weight Net	20 kg (50 lb)
Factory Gpib Address	17
Remote Language	SCPI and IEEE 488.2 common commands
Documentation	Agilent 86130A Quick Start Guide 9018-41313; programmer's guide 86130-90051
Form Factor	BitAlyzer mainframe with plug-in slots
Use Indoor	specified for indoor use
Plugin Subsystem	PLUGin SCPI subsystem for installed modules
Pattern And Clock	determined by installed pattern-generator/error-detector plug-ins
Application	high-speed BER and error-performance analysis
User Interface	dedicated BitAlyzer front panel
Humidity	up to 95 percent non-condensing at plus 40 C, 5 day soak

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	10 C to plus 45 C
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Humidity	up to 95 percent non-condensing at plus 40 C, 5 day soak
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PARAMETER

VALUE

User Interface

dedicated BitAlyzer front panel Notes Environmental, power, weight, and GPIB address from Agilent 86130A BitAlyzer Quick Start Guide Table 1-1/1-5. Bit-rate, amplitude, and jitter numeric tables are on the installed 86130A plug-in specification sheets, not the mainframe install chapter.

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.

Performance Analyzer

Overview

The Agilent 86130A BitAnalyzer is an error-performance analyzer for high-speed digital and optical communications BER. OEM 86130A Quick Start Guide lists operating 10 C to plus 45 C, 90-264 VAC 47-66 Hz, less than 500 VA, 20 kg, GPIB address 17 factory default, and SCPI remote control. Pattern-generator and error-detector plug-ins determine the bit-rate range.

Applications

BERT of high-speed ICs, transceivers, and subsystems using 86130A mainframe plus rate-specific plug-ins.

Key Features

BitAnalyzer error-performance mainframe
SCPI/IEEE-488.2 programming
Plug-in pattern generator and error detector architecture
Factory GPIB address 17
Front-panel plus remote operation

Technical Specifications

Technical Specifications

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Notes

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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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30-day returns
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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.