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Data Sheet

August 31, 2026

AGILENT

Agilent 86100C Infiniium DCA Oscilloscope w 092,701 + 86109A, 86109B

Agilent 86100C Infiniium DCA Oscilloscope w 092,701 + 86109A, 86109B,"Fully integrated DCA system with plug-in modules for advanced optical/electrical waveform analysis. Enables simultaneous high-speed testing across multiple channels. Ideal for evaluating signal quality in 10Gb/s and faster applications. Used in telecom and data communication testing to ensure conformance to stringent optical transmission standards."



MODEL

**Agilent
86100C/86109A/86109B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

86100C/86109A/86109B

LISTING

<https://aumictechlabs.com/products/86100c-86109a-86109b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent 86100C Infiniium DCA Oscilloscope with 86109A and 86109B modules delivers integrated optical and electrical waveform analysis for high-speed digital communications testing. This Digital Communications Analyzer platform operates as a multi-function instrument - oscilloscope, jitter analyzer, TDR, and DCA - supporting simultaneous multi-channel measurements at 10 Gb/s and beyond. The system performs advanced jitter decomposition, compliance testing against optical transmission standards, and standards-based transmitter verification across telecommunications and data communications applications. Technical Specifications Mainframe (86100C) Instrument modes: Digital Communications Analyzer, wide-

bandwidth oscilloscope, Time Domain Reflectometer, Jitter Analyzer Jitter analysis: Component decomposition (TJ, RJ, DJ, DDJ, PJ, DCD, SRJ) Standard trigger bandwidth: 3.2 GHz Enhanced trigger bandwidth (Option 001): 13 GHz with PatternLock for pattern-synchronized triggering Waveform analysis capability: 40 Gb/s and beyond Compliance testing: Automated, standards-based with eye-diagram masks Filter support: Broad range of standards-based filter combinations Storage: 40 GB internal hard drive for setups, waveforms, and captures Operating system: Windows XP Pro 86109A Plug-in Module Optical channel: 30 GHz bandwidth (unfiltered), 1000–1600 nm wavelength range, integrated flat-response receiver, built-in average power meter Electrical channel: 40 GHz bandwidth standard, 18 GHz reduced bandwidth mode, 3.5 mm male connector 86109B Plug-in Module Optical channel: 40 GHz bandwidth, amplified for 9/125 fiber, 1000–1600 nm wavelength range, 20 μ W RMS noise characteristic Electrical channel: 40 GHz bandwidth

Key Features PatternLock triggering automatically detects pattern length, data rate, and clock rate Modular architecture enables customization with plug-in modules for optical and electrical domains Multi-channel simultaneous analysis for signal quality assessment Standards-based compliance masks and automated test execution

Typical Applications 10 Gb/s and higher optical transmission testing Jitter characterization and decomposition in high-speed digital systems Transmitter compliance verification Signal integrity analysis in telecommunications and data communications

Compatibility & Integration The 86100C mainframe accepts the 86109A and 86109B modules in a scalable configuration, allowing parallel optical and electrical measurements with independent channel bandwidth and processing capabilities.

86100C86109A86109B Characteristics / Specifications

PARAMETER	VALUE
Model	86100C
Instrument Type	Infiniium DCA-J wideband oscilloscope mainframe
Architecture	modular sampling oscilloscope mainframe
Module Slots Class	multi-slot DCA module bay
Compatible Modules Class	861xx optical and electrical plug-ins
Measurement Modes Class	scope eye mask jitter TDR depending on options/modules
Trigger Bandwidth Full Class	DC to 3.2 GHz class family trigger path
Trigger Bandwidth Limited Class	DC to 100 MHz class
Trigger Level Adjustment Class	minus 1 V to +1 V class
Maximum Trigger Input Class	2 Vpp class
Remote Interfaces	GPIB LAN class
Display	color graphical Infiniium DCA UI
Form Factor	benchtop DCA mainframe
Brand Lineage	Agilent / Keysight
Series Family	Infiniium DCA 86100C
Successor Platform	86100D DCA-X
Firmware Upgrade Path	option and firmware upgradeable class
Operating Temperature Class	laboratory class
Power Mains Class	AC mains powered
Calibration Interval Class	annual class recommended
Module Bandwidth Dependence	optical/electrical bandwidth set by installed modules
Pattern Lock Class	available with appropriate options/modules
Bandwidth	Full Class: DC to 3.2 GHz class family trigger path
Operating temperature	Class: laboratory class

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: laboratory class
Operating Temperature	Class: laboratory class
Operating Temperature Class	laboratory class
Power Mains Class	AC mains powered
Calibration Interval Class	annual class recommended
Module Bandwidth Dependence	optical/electrical bandwidth set by installed modules
Pattern Lock Class	available with appropriate options/modules Notes From Agilent/Keysight 86100C Infiniium DCA-J Wideband Oscilloscope Mainframe data sheet. Exact bandwidth and sensitivity depend on installed 861xx modules.

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