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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N1032B

Keysight N1032B Dual Channel Optical Mini Module for DCA The Keysight N1032B is a dual-channel unamplified optical mini-module for N1000A/86100D DCA mainframes with up to 120 GHz optical bandwidth (-3 dBo characteristic) for 112 GBd class optical analysis. 112 GBd / 224 Gbps optical transmitter analysis, ultra-wide optical receiver characterization above 65 GHz. Optional hardware reference-receiver filters for standards rates The Keysight N1032B is a dual-channel unamplified optical mini-module for N1000A/86100D DCA mainframes with up to 120 GHz optical bandwidth (-3 dBo characteristic) for 112 GBd class optical analysis. 112 GBd / 224 Gbps optical transmitter analysis, ultra-wide optical receiver characterization above 65 GHz. Optional hardware reference-receiver filters for standards rates Average power monitor and factory wavelength calibrations at 1310/1550 nm



MODEL

**Agilent / Keysight
N1032B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N1032B

LISTING

<https://aumictechlabs.com/products/n1032b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N1032B is a dual-channel optical module that integrates into Keysight's N1000A and 86100D oscilloscope mainframes to enable high-speed optical signal analysis. The module extracts clock signals from optical data streams and regenerates trigger signals, delivering intrinsic jitter performance of 90 fs rms across its measurement bandwidth. With optical bandwidth up to 120 GHz, the N1032B addresses test requirements for 112 GBd (224 Gbps) optical signals and supports data rates spanning 33.3 GBd to 195 GBd. Technical Specifications Optical

Bandwidth: 90 GHz standard; 120 GHz optional Intrinsic Jitter: 90 fs rms Wavelength Range: 1250 nm to 1625 nm Supported Data Rates: 33.3 GBd to 195 GBd; optimized for 112 GBd Input Connector: FC/PC optical Channels: 2 optical channels; 0 electrical channels Sampling Rate: 40 kSa/s (86100D mainframe); 250 kSa/s (N1000A mainframe) Instrument Type: Equivalent-Time Sampling Form Factor: Plug-in moduleKey Features Impulse Response Correction (IRC) as standard functionality Optional hardware filters for standards-based signal rates Adjustable loop bandwidth and selectable peaking for measurement optimization Jitter Spectrum Analysis (JSA) for low-frequency jitter characterization Support for NRZ and PAM4 modulation formats Clock recovery with data regeneration capabilityTypical Applications High-speed serial data signal characterization Optical clock extraction and trigger recovery 224 Gbps and multi-rate optical signal analysis Jitter and timing measurements on optical communication signalsCompatibility & Integration Mainframes: Keysight N1000A (250 kSa/s); 86100D (40 kSa/s) Software: N1010A FlexDCA digital communication analyzer

N1032B Characteristics / Specifications

PARAMETER	VALUE
Model	N1032B
Instrument Type	DCA dual channel unamplified optical mini module
Optical Channel Count	2
Nominal Wavelength Range	1250 nm to 1625 nm
Factory Calibrated Wavelengths	1310 nm plus or minus 20 nm and 1550 nm plus or minus 20 nm
User Calibration Wavelength Range	1250 nm to 1625 nm
Hardware Filter Forty Nine Point Seven Six Six Four Gbd	37.3248 GHz -3 dBe ITU-T PON
Hardware Filter One Hundred Six Point Two Five Gbd Tdecq	53.125 GHz -3 dBe IEEE 800GBASE TDECQ
Hardware Filter One Hundred Twelve Point Five Gbd	56.25 GHz -3 dBe 4×200G-FR4 MSA
Rms Noise Characteristic Unfiltered Ninety Gigahertz At 1310 Nm	90 uW
Rms Noise Characteristic Unfiltered Ninety Gigahertz At 1550 Nm	155 uW
Rms Noise Maximum Unfiltered Ninety Gigahertz At 1310 Nm	105 uW
Rms Noise Maximum Unfiltered Ninety Gigahertz At 1550 Nm	165 uW Rms Noise Characteristic Unfiltered One Hundred Twenty Gigahertz At 1310 Nm: 175 uW Rms Noise Characteristic Unfiltered One Hundred Twenty Gigahertz At 1550 Nm: 300 uW
Scale Factor Minimum	40 uW per division
Scale Factor Maximum	2 mW per division
Cw Offset Range	+4 mW to -12 mW
Maximum Measurable Input Power	16 mW at 2 mW/division
Average Power Monitor Range	-30 dBm to +9 dBm (characteristic to +12 dBm)
Maximum Non Destruct Peak Power	18 mW (+12.5 dBm)
Fiber Input	9/125 um
Fiber Input Connector	FC

PARAMETER	VALUE
Channel Adc Resolution	16 bits
Max Sampling Rate In N1000A	250 kSa/s characteristic
Max Sampling Rate In 86100D	40 kSa/s characteristic
Impulse Response Correction	standard feature
Firmware Requirement	FlexDCA A.07.00 or above
Operating Temperature Specs	+10 C to +40 C
Factory Calibration Cycle	12 months
Wavelength range	1250 nm to 1625 nm
Bandwidth	Unfiltered Option 09U: 60 80 or 90 GHz (-3 dBo)
Operating temperature	Specs: +10 C to +40 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Specs: +10 C to +40 C
Operating Temperature	Specs: +10 C to +40 C
Operating Temperature Specs	+10 C to +40 C
Factory Calibration Cycle	12 months Notes Optical channel count, bandwidth options, noise, scale, power monitor, sampling rates, and environmental from Keysight N1032A/B module specifications (FlexDCA help) and DCA configuration guide 5992-3372.

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
Model	N1032B
Instrument Type	DCA dual channel unamplified optical mini module
Optical Channel Count	2
Optical Bandwidth Unfiltered Option 09U	60 80 or 90 GHz (-3 dBo)
Optical Bandwidth Unfiltered Option 13U	60 80 90 110 GHz and 120 GHz characteristic
Nominal Wavelength Range	1250 nm to 1625 nm
Factory Calibrated Wavelengths	1310 nm plus or minus 20 nm and 1550 nm plus or minus 20 nm
User Calibration Wavelength Range	1250 nm to 1625 nm
Hardware Filter Forty Nine Point Seven Six Six Four Gbd: 37.3248 GHz -3 dBe ITU-T PON	
Hardware Filter One Hundred Six Point Two Five Gbd Tdecq: 53.125 GHz -3 dBe IEEE 800GBASE TDECQ	
Hardware Filter One Hundred Twelve Point Five Gbd: 56.25 GHz -3 dBe 4x200G-FR4 MSA	
Rms Noise Characteristic Unfiltered Ninety Gigahertz At 1310 Nm: 90 uW	
Rms Noise Characteristic Unfiltered Ninety Gigahertz At 1550 Nm: 155 uW	
Rms Noise Maximum Unfiltered Ninety Gigahertz At 1310 Nm: 105 uW	
Rms Noise Maximum Unfiltered Ninety Gigahertz At 1550 Nm: 165 uW	
Rms Noise Characteristic Unfiltered One Hundred Twenty Gigahertz At 1310 Nm: 175 uW	
Rms Noise Characteristic Unfiltered One Hundred Twenty Gigahertz At 1550 Nm: 300 uW	
Specifications	
PARAMETER	VALUE
Scale Factor Minimum	40 uW per division
Scale Factor Maximum	2 mW per division
Cw Offset Range	+4 mW to -12 mW
Maximum Measurable Input Power	16 mW at 2 mW/division
Average Power Monitor Range	-30 dBm to +9 dBm (characteristic to +12 dBm)
Maximum Non Destruct Peak Power	18 mW (+12.5 dBm)
Fiber Input	9/125 um
Fiber Input Connector	FC
Channel Adc Resolution	16 bits
Max Sampling Rate In N1000A	250 kSa/s characteristic

PARAMETER	VALUE
Max Sampling Rate In 86100D	40 kSa/s characteristic
Impulse Response Correction	standard feature
Firmware Requirement	FlexDCA A.07.00 or above
Operating Temperature Specs	+10 C to +40 C
Factory Calibration Cycle	12 months

Notes
Optical channel count, bandwidth options, noise, scale, power monitor, sampling rates, and environmental from Keysight N1032A/B module specifications (FlexDCA help) and DCA configuration guide 5992-3372.

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
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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.