

KEYSIGHT TECHNOLOGIES (AGILENT HP)

86105D

The Keysight 86105D (formerly Agilent) is an Optical/Electrical plug-in module designed for high-performance waveform analysis of optical transceivers. It integrates a 20 GHz unfiltered optical channel with selectable compliant reference receiver filters for rates up to 14.025 Gb/s, and a 35 GHz electrical channel, making it ideal for testing 8X/16X Fibre Channel, 10 Gb/s SONET/SDH, and 10 GbE applications when paired with the 86100C mainframe.

SPECIFICATIONS

Physical

Power Supply	Powered by DCA mainframe
Operating Temperature	10 to 40 °C °C

Optical Channel Specifications

Wavelength Range	750 - 1650 nm
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Reference Receiver Filter Specifications

Supported Bit Rates	8.5, 9.953, 10.3, 10.5, 10.6, 10.7, 11.1, 11.3, 14.025 Gb/s
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Optical Input

Factory Calibration Wavelengths	850 nm, 1310 nm, 1550 nm
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Electrical Input

Maximum Safe Electrical Input Voltage	±2 V
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Options

Option 100 Configuration	20 GHz optical, 35 GHz electrical bandwidth
Option 200 Configuration	34 GHz optical, 50 GHz electrical bandwidth

Receiver Performance

Electrical Channel Rise Time (10% to 90%, calculated)	10.0 ps (Option 100) / 7.0 ps (Option 200)
Electrical Input Nominal Impedance	50 Ω

Physical Interfaces

Optical Input Interface	Compatible with Keysight/Agilent 81000x series connector adapters
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Environmental

Storage Temperature Range	-40 °C to +70 °C
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Configuration Options

Option IRC	Provides measured system impulse response correction (SIRC) for optical reference receiver compliance
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TECHNOLOGY

Optical and Electrical Sampling Oscilloscope Module

APPLICATIONS

Precision waveform analysis for high-speed optical transceivers, including 8X/16X Fibre Channel, 10 Gb/s Ethernet, and SONET/SDH

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.