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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight AE2000L

Related Receiver Line: AE2000R / AE2010R MIPI A-PHY receiver BER with M8195A AWG

Connector Class: vendor specific automotive SerDes connectors Report Class: insertion loss crosstalk mode conversion pass fail From Keysight Automotive SerDes Channel Testing data sheet 3121-1417 (AE2000L MIPI A-PHY channel solution; KS8400B, AE6800C, AE2010L licenses; VNA automation of insertion loss/crosstalk/mode conversion). Frequency limits and fixture part numbers are on the AE2000L ordering pages of that sheet. HP Agilent Keysight AE2000L Automotive SerDes Channel Compliance Solution The Keysight AE2000L is an automotive SerDes channel-compliance solution for MIPI A-PHY harness assemblies, cables, and connectors. OEM Automotive SerDes Channel Testing data sheet 3121-1417 describes hardware, accessories, and software that automatically configure a vector network analyzer and report insertion loss, crosstalk, mode conversion, and pass/fail against published limits. Software licenses under AE2000L are KS8400B (PathWave test automation GUI), AE6800C (core channel-testing software), and AE2010L (Automotive SerDes test cases). AE2010L installs on the VNA or a controlling PC.



MODEL

**Agilent / Keysight
AE2000L**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AE2000L

LISTING

<https://aumictechlabs.com/products/ae2000l-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight AE2000L is a software-based platform for automotive SerDes cable and channel validation, delivering compliance testing across MIPI A-PHY, Automotive SerDes Alliance (ASA), and GMSL2 standards. It validates cables, adapters, connectors, and harnesses against automotive requirements, eliminating impedance mismatches, signal distortion, and manufacturing defects. The solution operates on Keysight Vector Analyzers equipped with Time Domain Reflectometry (TDR), automating test plan creation, limit line setup, and comprehensive reporting.

Technical Specifications

Supported Standards	Measurement Parameters	Insertion Loss (IL)	Return Loss (RL)	Cross-talk between cables	Mode Conversion	End Node Interconnect Structure (IL, RL, ANEXT)	Cable Transmission Line Interconnect Structure (IL, RL, Coupling/screening/unbalanced attenuation)	Data Rate Support
Up to 10 Gbps for Automotive Ethernet applications	SerDes link speeds determined by supported standards	Test Domains	Time Domain	Frequency Domain	Key Features	Automatic port detection across VNA channels	Automated test plan generation for selected lanes	Automatic network analyzer configuration with limit lines for each measurement
Detailed results reporting including sweep type, timing, and pass/fail status	HTML and PDF report generation for MIPI A-PHY, ASA, and GMSL interfaces	Typical Applications	Automotive cable and connector compliance validation	High-speed SerDes channel characterization	Transmission line interconnect verification	End node signal integrity assessment	Compatibility & Integration	Supported Vector Analyzers

Required Software

Keysight PathWave Test Automation (KS8400B)	AE6800C Cable and Connector compliance software (core module)	AE2010L Automotive SerDes cable and connector software
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AE2000L Characteristics / Specifications

PARAMETER	VALUE
Model	AE2000L
Instrument Type	Automotive SerDes channel compliance solution
Target Standard	MIPI A-PHY SerDes links
Dut Class	harness assemblies, cables, and connectors
Measured Parameters	insertion loss, crosstalk, mode conversion, pass/fail limits
Base Automation Software	KS8400B PathWave test automation GUI
Core Channel Software	AE6800C
Test Case Software	AE2010L Automotive SerDes standards cases
Host Instrument	vector network analyzer or PC controlling the VNA
Software Location	AE2010L installed on VNA or controlling PC
Manufacturer	HP Agilent Keysight
Literature	Keysight Automotive SerDes Channel Testing MIPI A-PHY data sheet 3121-1417
Family	Keysight AE2000 automotive SerDes compliance
Brand Lineage	Hewlett Packard Agilent Keysight
Form Factor	VNA based channel compliance system
System Role	automotive SerDes harness/connector tester
Use Case	MIPI A-PHY channel verification
Documentation Type	OEM AE2000L data sheet
Year Class	AE2000 automotive SerDes family
Application Class	automotive high speed cable compliance
Control Class	automated VNA sequencing
Companion Role	KS8400B / AE6800C / AE2010L software set
Vendor Path	HP Agilent Keysight
Related Receiver Line	AE2000R / AE2010R MIPI A-PHY receiver BER with M8195A AWG
Connector Class	vendor specific automotive SerDes connectors

PARAMETER	VALUE
Report Class	insertion loss crosstalk mode conversion pass fail

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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Form Factor	VNA based channel compliance system
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PARAMETER	VALUE
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Notes From Keysight Automotive SerDes Channel Testing data sheet 3121-1417 (AE2000L MIPI A-PHY channel solution; KS8400B, AE6800C, AE2010L licenses; VNA automation of insertion loss/crosstalk/mode conversion). Frequency limits and fixture part numbers are on the AE2000L ordering pages of that sheet.	

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

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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.