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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E5900A

Agilent Keysight E5900A Emulation Probe Trace Module Class The Agilent E5900A is an emulation/trace probe family module used with Agilent logic analysis and emulation systems. OEM Agilent emulation probe literature describes processor run-control and trace for embedded debug. Embedded processor run-control, real-time trace, and firmware debug with Agilent logic analyzers. Processor emulation and trace probe architecture The Agilent E5900A is an emulation/trace probe family module used with Agilent logic analysis and emulation systems. OEM Agilent emulation probe literature describes processor run-control and trace for embedded debug. Embedded processor run-control, real-time trace, and firmware debug with Agilent logic analyzers. Processor emulation and trace probe architecture Works with Agilent logic analysis mainframes



MODEL Agilent / Keysight E5900A	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU E5900A	LISTING https://aumictechlabs.com/products/e5900a-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight E5900A is a board test system engineered for manufacturing defect analysis and functional testing of electronic assemblies. It delivers high-speed digital and analog test capabilities paired with in-circuit emulation functionality. The system provides essential processor control operations - run, break, reset, and single-step - enabling direct interaction with target processors during test execution. Code download and memory/register modification capabilities

allow engineers to load firmware, alter processor state, and validate behavior without removing components from the board.

Technical Specifications

Processor control: Run, break, reset, single-step operations

Code download to target processor

Memory and register modification on target processor

Standalone emulation probe architecture - each option supports specific processor families with dedicated documentation

Key Features

- High-speed digital and analog test performance
- In-circuit emulation via debug port interface
- Direct processor state manipulation during execution
- Modular probe design for processor-specific implementations

Typical Applications

- Manufacturing defect analysis of electronic assemblies
- Functional testing of processor-based boards
- In-circuit firmware validation and debugging
- Memory and register-level diagnostics

Compatibility & Integration

The E5900A emulation probes integrate with the Keysight 16700A Series logic analysis system through the target processor's debug port. This integration enables synchronized logic capture and processor-level control within a unified test environment. Each E5900A option is a standalone product designed for specific processor architectures, with independent documentation and probe configurations.

E5900A Characteristics / Specifications

PARAMETER	VALUE
Model	E5900A
Instrument Type	emulation probe trace module
Brand Lineage	HP Agilent Keysight
Series Family	Agilent E5900
Function	run control and trace
Host System	Agilent logic analysis / emulation class
Form Factor	probe module with target cable class
Trace Memory Class	deep trace buffer class
Clock Speed Class	processor dependent class
Supported Architectures	multiple CPU families via adapters
Interfaces	analyzer mainframe link class
Operating Temperature Class	0 C to 40 C
Related Models	E5901A E5910A class
Use Case	embedded debug
Triggering	trace trigger and store qualify class
Voltage Domains	multi I/O voltage support class
Cable Length Class	probe cable class
Power Source	analyzer powered class
Humidity Class	noncondensing
Storage Temperature Class	minus 40 C to 70 C class
Safety	ESD safe handling required
Firmware	probe firmware revision class
Storage temperature	Class: minus 40 C to 70 C class
Operating temperature	Class: 0 C to 40 C
Humidity	Class: noncondensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	Class: minus 40 C to 70 C class
Operating temperature	Class: 0 C to 40 C
Operating Temperature	Class: 0 C to 40 C
Humidity	Class: noncondensing
Operating Temperature Class	0 C to 40 C
Related Models	E5901A E5910A class
Use Case	embedded debug
Triggering	trace trigger and store qualify class
Voltage Domains	multi I/O voltage support class
Cable Length Class	probe cable class
Power Source	analyzer powered class
Humidity Class	noncondensing
Storage Temperature Class	minus 40 C to 70 C class
Safety	ESD safe handling required
Firmware	probe firmware revision class Notes Capability rows from Agilent E5900A emulation probe product family descriptions. Exact supported CPUs and max trace clock are on the E5900A configuration guide.

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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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>

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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.