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Data Sheet

August 5, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) E2906A 1 GHz Data Module 128kbit

Keysight (Agilent) E2906A 1 GHz Data Module 128 kbit The Keysight/Agilent E2906A is a plug-in 1 GHz data module with 128 kbit memory for the E2900A (80000 Series) Data Generator System mainframe. Provides high-speed data pattern stimulus for digital device characterization when used with E2905A clock/strobe modules in the E2900A system. High-speed digital pattern generation; DAC and multi-channel receiver stimulus; custom LSI characterization (with E2900A). The Keysight/Agilent E2906A is a plug-in 1 GHz data module with 128 kbit memory for the E2900A (80000 Series) Data Generator System mainframe. Provides high-speed data pattern stimulus for digital device characterization when used with E2905A clock/strobe modules in the E2900A system. High-speed digital pattern generation; DAC and multi-channel receiver stimulus; custom LSI characterization (with E2900A).



MODEL

**Keysight / Agilent
E2906A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E2906A

LISTING

<https://aumictechlabs.com/products/e2906a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight (Agilent) E2906A is a 1 GHz data module designed for high-speed pattern generation within the HP 80000 Data Generator System. This plug-in card generates precise test patterns at data rates up to 1 Gbit/s, with multiplexing capability reaching 2 Gbit/s, making it

suitable for characterization of analog and digital devices. The module provides 128 kbit of onboard memory and outputs in NRZ and RZ formats with 50 Ohm impedance. Technical Specifications Data rate: 1 Gbit/s (multiplexing up to 2 Gbit/s) Memory: 128 kbit Output formats: NRZ, RZ Output impedance: 50 Ohm Product type: Plug-in data module Status: ObsoleteKey Features Supports PRBS, Aero Substitution, and Variable Mark Density test patterns Modular architecture for flexible system configuration Integrates with E2900A Mainframe and E2901A Expansion Frame Generates deterministic and statistical test sequences for device characterizationTypical Applications Fast DAC characterization Multi-channel receiver testing Parallel-to-serial converter validation Custom LSI IC characterizationCompatibility & Integration The E2906A operates as a plug-in module within the HP 80000 Data Generator System, pairing with the E2900A Mainframe (which includes microprocessor and clock board), the E2901A Expansion Frame for system expansion, and related modules such as the E2902A 1 GHz Clock/Strobe Module. Though listed as obsolete by Keysight, support and repair services may be available through authorized service centers.

Features & description

From manufacturer datasheet

Features

- Plug-in for E2900A Data Generator System • Data module to 1 GHz • Memory depth: 128 kbit • Works with E2905A clock/strobe and E2900A mainframe

E2906A Characteristics / Specifications

PARAMETER	VALUE
Model	E2906A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Data Generator Data Module
Family	80000 / E2900 Series
Alias	E2906A; Agilent E2906A Performance
Maximum frequency	1 GHz class
Memory	128 kbit
Host	E2900A mainframe (optional E2901A expansion) Operational Notes Requires E2900A mainframe. Prefer Agilent 80000 / E2900 Series documentation for channel count and I/O levels.
Memory depth	128 kbit

E2906A Specifications

PARAMETER	VALUE
Keysight (Agilent) E2906A 1 GHz Data Module 128 kbit	Overview
Applications	High-speed digital pattern generation; DAC and multi-channel receiver stimulus; custom LSI characterization (with E2900A).
Key Features	- Plug-in for E2900A Data Generator System
Technical Specifications	Model: E2906A
Performance	Maximum frequency: 1 GHz class
Operational Notes	Requires E2900A mainframe. Prefer Agilent 80000 / E2900 Series documentation for channel count and I/O levels.

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	E2906A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Data Generator Data Module
Family	80000 / E2900 Series
Alias	E2906A; Agilent E2906A

Performance

Performance

PARAMETER	VALUE
Maximum frequency	1 GHz class
Memory	128 kbit
Host	E2900A mainframe (optional E2901A expansion)

Operational Notes

Requires E2900A mainframe. Prefer Agilent 80000 / E2900 Series documentation for channel count and I/O levels.

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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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.