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Data Sheet

August 13, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N4872A 13.5 Gb/s Generator Parbert

The Agilent N4872A is a 13.5 Gb/s data generator module for the 81250 ParBERT system. It occupies one VXI slot and requires the two-slot E4809A 13.5 GHz central clock module. The generator produces differential or single-ended data and clock from 620 Mb/s to 13.5 Gb/s with hardware PRBS to $2^{31}-1$, PRWS, and 64 Mbit user memory. Specs are typically valid at the end of the N4910A 24-inch matched 2.4 mm cable pair. Companion analyzer is N4873A. 13.5 Gb/s-class serial interface stimulus; LVDS/CML/PECL/ECL/low-voltage CMOS device characterization; multi-lane ParBERT BER setups with N4873A analyzers; backplane and high-speed I/O manufacturing test within 81250 systems. Agilent / Keysight N4872A 13.5 Gb/s ParBERT Data Generator Module The Agilent N4872A is a 13.5 Gb/s data generator module for the 81250 ParBERT system. It occupies one VXI slot and requires the two-slot E4809A 13.5 GHz central clock module. The generator produces differential or single-ended data and clock from 620 Mb/s to 13.5 Gb/s with hardware PRBS to $2^{31}-1$, PRWS, and 64 Mbit user memory. Specs are typically valid at the end of the N4910A 24-inch matched 2.4 mm cable pair. Companion analyzer is N4873A.



MODEL

**Keysight / Agilent
N4872A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N4872A

LISTING

<https://aumictechlabs.com/products/n4872a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight N4872A is a 13.5 Gb/s generator module purpose-built for high-speed digital interface characterization across R&D and manufacturing environments. This ParBERT generator delivers precise signal generation from 620 Mb/s to 13.5 Gb/s, supporting both differential and single-ended outputs with programmable pattern generation and error injection capabilities.

Technical Specifications

Data Rate & Signal Generation

Operating range: 620 Mb/s to 13.5 Gb/s

Output amplitude: 0.1 Vpp to 1.8 Vpp (5 mV resolution)

Transition time (20%–80%): less than 20 ps

Jitter: less than 9 ps peak-to-peak (typical)

Jitter modulation bandwidth: DC to 1 GHz

External clock input: 620 MHz to 13.5 GHz

Crosspoint adjustment: 20% to 80%

Output termination: 50 Ohm center-tapped or 100 Ohm differential

Pattern Capabilities

Pseudo-random word sequences (PRWS)

PRBS patterns up to $2^{31}-1$

Memory-based patterns up to 64 Mb

User-defined patterns

Mixed data patterns (PRBS + user-defined combinations)

Key Features

Fast edge transitions under 20 ps enable accurate timing characterization.

Low jitter performance - 9 ps peak-to-peak typical - supports stringent signal integrity requirements.

Flexible pattern generation spans from industry-standard PRBS sequences to custom memory-based designs, accommodating both protocol validation and stress testing scenarios.

Typical Applications

10-Gigabit Ethernet (10.3 Gb/s, 9.953 Gb/s)

10-Gigabit Fiber Channel (10.51875 Gb/s)

High-speed I/O standards: InfiniBand, Serial ATA, PCI-Express, Firewire, Rapid I/O (6.25–6.4 Gb/s)

OC-768/STM-256 and OC-192/STM-64 hierarchies

Concurrent multi-device manufacturing test

Compatibility & Integration

The N4872A occupies one VXI slot within the Keysight 81250 ParBERT modular platform. Operation requires the E4809A Central Clock module. Typically paired with the N4873A 13.5 Gb/s Analyzer Module for full transceiver characterization. The 81250 platform supports generator and analyzer modules rated to 45 Gb/s.

Features & description

From manufacturer datasheet

Features

- Data rate 620 Mb/s to 13.5 Gb/s

N4872A Characteristics / Specifications

PARAMETER	VALUE
Model	N4872A
Manufacturer	Agilent / Keysight
Instrument Type	ParBERT 13.5 Gb/s data generator module
Alias	N4872A; Agilent N4872A; Keysight N4872A
Data Rate Range	620 Mb/s to 13.5 Gb/s
Clock Output Frequency	620 MHz to 13.5 GHz
Connectors	2.4 mm (f), differential or single-ended
Output Impedance	50 ohm typical
Data Amplitude / Resolution	0.1 Vpp to 1.8 Vpp / 5 mV
Data Output Voltage Window	-2.00 V to +3.00 V
Clock Output Amplitude / Resolution	0.1 Vpp to 1.8 Vpp / 5 mV
Clock Output Voltage Window	-2.00 V to +2.80 V
Short Circuit Current	72 mA max
External Termination Voltage	-2 V to +3 V
Data Formats	NRZ, DNRZ
Pattern Memory	64 Mbit
PRBS	Hardware-based up to 2 ³¹ -1
VXI Slot Width	1
Required Clock Module	E4809A (2 VXI slots)
Recommended Cable Set	N4910A 24 in matched pair 2.4 mm
Delay Control Input	Single-ended 50 ohm; modulate delay to 1 GHz (200 ps)
Companion Analyzer	N4873A
System Family	81250 ParBERT Notes Specs from Agilent ParBERT 13.5 Gb/s module datasheet (5988-9202 / 5968-9188E class). Confirm E4809A, N4910A cables, and termination voltage settings on the installed system.
Data Rate	620 Mb/s to 13.5 Gb/s

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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PARAMETER	VALUE
Model	N4872A
Manufacturer	Agilent / Keysight
Instrument Type	ParBERT 13.5 Gb/s data generator module
Specifications	
PARAMETER	VALUE
Alias	N4872A; Agilent N4872A; Keysight N4872A
Data Rate Range	620 Mb/s to 13.5 Gb/s
Clock Output Frequency	620 MHz to 13.5 GHz
Specifications	
PARAMETER	VALUE
Connectors	2.4 mm (f), differential or single-ended
Output Impedance	50 ohm typical
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Data Output Voltage Window	-2.00 V to +3.00 V
Clock Output Amplitude / Resolution	0.1 Vpp to 1.8 Vpp / 5 mV
Clock Output Voltage Window	-2.00 V to +2.80 V
Specifications	
PARAMETER	VALUE
Short Circuit Current	72 mA max
External Termination Voltage	-2 V to +3 V
Data Formats	NRZ, DNRZ

Transition Time 20-80%: less than 20 ps
Transition Time 10-90% Class: less than 25 ps

Specifications

PARAMETER	VALUE
Pattern Memory	64 Mbit
PRBS	Hardware-based up to 2^31-1
VXI Slot Width	1

Specifications

PARAMETER	VALUE
Required Clock Module	E4809A (2 VXI slots)
Recommended Cable Set	N4910A 24 in matched pair 2.4 mm
Delay Control Input	Single-ended 50 ohm; modulate delay to 1 GHz (200 ps)

Companion Analyzer: N4873A
System Family: 81250 ParBERT
Notes
Specs from Agilent ParBERT 13.5 Gb/s module datasheet (5988-9202 / 5968-9188E class). Confirm E4809A, N4910A cables, and termination voltage settings on the installed system.

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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<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.