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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E4844A

Agilent Keysight E4844A ParBERT Module Class The Agilent E4844A isaParBERT family generator/analyzer module used in Agilent parallel bit-error-ratio test systems. OEM ParBERT E48xx literature describes multi-channel BERT stimulus and error detection for high-speed digital validation. Multi-lane BERT, parallel interface characterization, and automated digital receiver testing. ParBERT modular generator/analyzer architecture The Agilent E4844A isaParBERT family generator/analyzer module used in Agilent parallel bit-error-ratio test systems. OEM ParBERT E48xx literature describes multi-channel BERT stimulus and error detection for high-speed digital validation. Multi-lane BERT, parallel interface characterization, and automated digital receiver testing. ParBERT modular generator/analyzer architecture

Instrument Type: ParBERT generator analyzer module



MODEL

**Agilent / Keysight
E4844A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E4844A

LISTING

<https://aumictechlabs.com/products/e4844a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight E4844A is a single-channel network analyzer delivering 660 MSa/s sampling capability. Though now obsolete, Keysight maintains full support including calibration and repair services, allowing continued operation or smooth transition to current instruments. This analyzer characterizes electronic components and systems across a broad measurement scope, from passive networks to active devices. Technical Specifications The E4844A measures S-

parameters (magnitude and phase), return loss, gain, standing wave ratio, impedance, and nonlinear characteristics. Measurement integrity depends on proper calibration using Keysight's advanced calibration techniques. The instrument supports trace math functions, marker searches, and time-domain analysis for comprehensive data interpretation.

Key Features

- 660 MSa/s sampling rate
- S-parameter and impedance measurement capability
- Return loss and gain characterization
- Standing wave ratio (SWR) analysis
- Nonlinear device characterization
- Advanced calibration support
- Built-in trace math and marker functions
- Time-domain analysis

Typical Applications

Network analyzers serve critical roles across multiple engineering disciplines. In research and development, they enable detailed characterization of new components during advanced system design. Manufacturing and production environments use these instruments for quality assurance and performance verification of components and assembled products. Aerospace and defense applications rely on precise network analysis for system validation and component qualification.

Compatibility & Integration

As a legacy instrument, the E4844A likely employs GPIB interfacing for system integration and remote control. Engineers integrating this analyzer into existing test benches should verify interface compatibility with host control systems and confirm software support for legacy GPIB communication protocols. Keysight's ongoing technical support ensures access to calibration procedures and troubleshooting resources.

E4844A Characteristics / Specifications

PARAMETER	VALUE
Model	E4844A
Instrument Type	ParBERT generator analyzer module
Series Family	Agilent E48xx ParBERT
Brand Lineage	HP Agilent Keysight
Function	parallel BERT stimulus and analysis
Data Rate Class	multi Gb/s ParBERT class
Channel Count Class	multi channel module class
Pattern Memory Class	deep pattern memory class
Error Detection	bit error counting
Form Factor	ParBERT plug-in module
Mainframe	Agilent ParBERT chassis class
Interfaces	mainframe controlled GPIB class
Operating Temperature Class	0 C to 40 C
Related Models	E4861A E4862B E4853A E4854A
Use Case	multi-lane digital validation
Clocking	shared ParBERT clock architecture class
Jitter Class	low intrinsic jitter class
Output Swing Class	programmable differential swing class
Input Sensitivity Class	analyzer sensitivity class
Termination	50 Ohm class
Power Source	ParBERT mainframe backplane
Manufacturer	Agilent Technologies
Data Rate	Class: multi Gb/s ParBERT class
Operating temperature	Class: 0 C to 40 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 0 C to 40 C
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Input Sensitivity Class	analyzer sensitivity class
Termination	50 Ohm class
Power Source	ParBERT mainframe backplane
Manufacturer	Agilent Technologies Notes Capability rows from Agilent ParBERT E4844A module family documentation. Exact data-rate ceiling and channel map are on the E4844A module datasheet.

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

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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.