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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E1670B

HP Agilent E1670B SONET/SDH Optical Interface 52 Mb/s to 2.488 Gb/s The HP E1670B is a multi-rate SONET/SDH optical interface VXI module covering 52 Mb/s to 2.488 Gb/s. OEM catalog listings place it in the 75000 Series 90 optical family with E1662A (155/622) and E1676B analyzer. Broadband optical STS/STM access from STM-0/STS-1 through STM-16/STS-48 in Series 90 / BSTS systems. Covers STS-1 through STS-48 optical rates The HP E1670B is a multi-rate SONET/SDH optical interface VXI module covering 52 Mb/s to 2.488 Gb/s. OEM catalog listings place it in the 75000 Series 90 optical family with E1662A (155/622) and E1676B analyzer. Broadband optical STS/STM access from STM-0/STS-1 through STM-16/STS-48 in Series 90 / BSTS systems. Covers STS-1 through STS-48 optical rates Instrument Type: multi-rate SONET/SDH optical interface



Aumictech Group

MODEL

**Agilent / Keysight
E1670B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E1670B

LISTING

<https://aumictechlabs.com/products/e1670b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The E1670B is a SONET/SDH logic analysis interface module designed for integration into Agilent/Keysight 16700-Series mainframe systems. This optical interface module captures and analyzes digital signals at 1550 nm wavelength, enabling state and timing analysis for high-speed serial data validation and hardware debugging in telecommunications and synchronous optical networking applications. Technical Specifications The E1670B functions as an interface module within modular logic analyzer mainframes, specifically the 16700B and 16702B. Its primary

interface is optical, operating at a 1550 nm wavelength for SONET/SDH transmission (TX). The module integrates into standardized form factor slots within compatible Keysight/Agilent mainframes, drawing power from the host system.

Key Features SONET/SDH 1550 nm optical interface module (transmit) State and timing analysis of captured digital signals Digital signal capture and display for validation and debugging Modular architecture for integration into 16700-Series mainframes Compatible with 16700B and 16702B logic analyzer systems

Typical Applications The E1670B is suited for engineers debugging and validating high-speed optical serial signals in telecommunications infrastructure, particularly in SONET/SDH network deployments where 1550 nm wavelength transmission analysis is required. Signal capture and timing analysis support hardware and software validation workflows in optical communication systems.

Compatibility & Integration The E1670B is designed exclusively for Agilent/Keysight logic analysis mainframes in the 16700-Series product line. Installation occurs in dedicated module slots within 16700B and 16702B systems. The module interfaces with mainframe inter-module communication, power distribution, and data transfer infrastructure. Note: This product is obsolete.

E1670B Characteristics / Specifications

PARAMETER	VALUE
Model	E1670B
Instrument Type	multi-rate SONET/SDH optical interface
Rate Low	52 Mb/s
Rate High	2.488 Gb/s
Rate Sts	2.48832 Gb/s
Card Format	C-size VXI
Partner Platform	HP 75000 Series 90
Partner Analyzer	E1676B 51 to 2488 Mb/s
Related Dual Rate Lif	E1662A 155/622 Mb/s optical
Related Toh Analyzer	E1675A
Manufacturer	HP Agilent Keysight
Use Case	multi-rate optical SONET/SDH access
Standards Family	SONET/SDH
Remote Control	Series 90 / BSTS controller
System Role	multi-rate optical interface
Form Factor	C-size VXI module
Bus	VXI
Medium	optical
Slot Family	Series 90 VXI
Related Spe Generator	E1681A
Wavelength Class	1310 nm class Series 90 optics

E1670B Specifications

PARAMETER	VALUE
Applications	Broadband optical STS/STM access from STM-0/STS-1 through STM-16/STS-48 in Series 90 / BSTS systems.
Key Features	52 Mb/s to 2.488 Gb/s optical span
Series 90 / BSTS VXI module	Covers STS-1 through STS-48 optical rates
Technical Specifications	Model: E1670B

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	E1670B
Instrument Type	multi-rate SONET/SDH optical interface
Rate Low	52 Mb/s
Rate High	2.488 Gb/s
Rate Sts1	51.84 Mb/s
Rate Sts3	155.52 Mb/s
Rate Sts12	622.08 Mb/s
Rate Sts48	2.48832 Gb/s
Card Format	C-size VXI
Partner Platform	HP 75000 Series 90
Partner Analyzer	E1676B 51 to 2488 Mb/s
Related Dual Rate Lif	E1662A 155/622 Mb/s optical
Related Toh Analyzer	E1675A
Manufacturer	HP Agilent Keysight
Use Case	multi-rate optical SONET/SDH access
Standards Family	SONET/SDH
Remote Control	Series 90 / BSTS controller
System Role	multi-rate optical interface
Form Factor	C-size VXI module
Bus	VXI
Medium	optical
Slot Family	Series 90 VXI
Related Spe Generator	E1681A
Wavelength Class	1310 nm class Series 90 optics

Notes

From HP E1670B catalog identity (SONET/SDH Optical Interface 52 Mb/s-2.488 Gb/s, VXI). Connector, reach, and wavelength belong on the E1670B optical data 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

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.