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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E1676b

HP Agilent E1676B 51 to 2488 Mb/s SONET/SDH Analyzer The HP E1676B is a multi-rate SONET/SDH analyzer VXI module for the 75000 Series 90 and Broadband Series Test System. OEM catalog listings identify 51 to 2488 Mb/s coverage spanning STS-1/STM-0 through STS-48/STM-16 concatenated payloads. Multi-rate SONET/SDH transmission-equipment validation, overhead stressing, and payload integrity checks from 52 Mb/s to 2.488 Gb/s. Four standard SONET/SDH line rates in one analyzer module The HP E1676B is a multi-rate SONET/SDH analyzer VXI module for the 75000 Series 90 and Broadband Series Test System. OEM catalog listings identify 51 to 2488 Mb/s coverage spanning STS-1/STM-0 through STS-48/STM-16 concatenated payloads. Multi-rate SONET/SDH transmission-equipment validation, overhead stressing, and payload integrity checks from 52 Mb/s to 2.488 Gb/s. Four standard SONET/SDH line rates in one analyzer module Pairs with optical/electrical LIFs and SPE/VT modules



MODEL

**Agilent / Keysight
E1676b**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E1676b

LISTING

<https://aumictechlabs.com/products/e1676b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight E1676B is a Multi-Rate SDH/SONET Analyzer Module that tests and evaluates equipment in synchronous telecommunication networks. This C-size, triple-slot VXI module integrates into the HP 75000 Series 90 Modular SONET/SDH Analyzer and Broadband Series Test System (BSTS) to deliver comprehensive analysis across four standard transmission

rates. Technical Specifications The E1676B operates at SONET/SDH rates of 52 Mb/s, 155 Mb/s, 622 Mb/s, and 2.488 Gb/s, supporting STS-1/STM-0, STS-3/STM-4, STS-12/STM-1, and STS-48/STM-16 frame formats. The module handles concatenated payloads across all supported rates. Payload add/drop capability functions at 52 Mb/s and 155 Mb/s in MULTirate mode. Tributary add/drop capability extends to 52 Mb/s, 155 Mb/s, and 622 Mb/s in TRIButary mode, enabling interconnection with other Series 90 modules for comprehensive payload testing within STS-48/STM-16 and STS-48c/STM-16c signals. Key Features Framework error stressing and alarm generation (AIS, FERF) B1, B2, B3, and Data error insertion Detection of AIS, FERF, Out of Frame (OOF), Loss of Signal (LOS), and Loss of Pointer (LOP) Full programmable overhead byte management with sequencing capability Pointer adjustment and stress testing PRBS bulk fill generation and measurement for concatenated payloads Frame and byte capture functionality Trigger outputs for events and alarm conditions Typical Applications The E1676B addresses validation of SDH/SONET transmission equipment, network element testing, payload integrity verification, and fault condition simulation across multi-rate synchronous networks. Compatibility & Integration This module functions as a component within the HP 75000 Series 90 Modular SONET/SDH Analyzer platform and the Broadband Series Test System (BSTS), providing modular test integration for complex network analysis configurations.

E1676B Characteristics / Specifications

PARAMETER	VALUE
Model	E1676B
Also Known As	E1676b
Instrument Type	multi-rate SONET/SDH analyzer
Rate Low	51.84 Mb/s STS-1/STM-0
Rate Sts	622.08 Mb/s STS-12/STM-4
Rate High	2.488 Gb/s STS-48/STM-16
Rate Span Listed	51 to 2488 Mb/s
Card Format	C-size VXI
Partner Platform	HP 75000 Series 90 Modular SONET/SDH Analyzer
Partner Bsts	E4200/E4210 Broadband Series Test System
Related Toh Analyzer	E1675A STS-48/STM-16 transport overhead analyzer
Related Toh Receiver	E1673A SONET/SDH transport overhead receiver
Related Spe Generator	E1681A SONET/SDH SPE generator
Related Spe Receiver	E1682A SONET/SDH SPE receiver
Related Optical Lif	E1662A 155/622 Mb/s optical
Manufacturer	HP Agilent Keysight
Use Case	multi-rate synchronous network analysis
Concatenated Payloads	supported at listed rates
Form Factor	C-size VXI module
Standards Family	SONET GR-253 and SDH G.707 class
Remote Control	Series 90 / BSTS controller
System Role	multi-rate SONET/SDH analyzer
Frame Formats	STS-1/STM-0 through STS-48/STM-16

E1676B Specifications

PARAMETER	VALUE
HP Agilent E1676B 51 to 2488 Mb/s SONET/SDH Analyzer	Overview
Applications	Multi-rate SONET/SDH transmission-equipment validation, overhead stressing, and payload integrity checks from 52 Mb/s to 2.488 Gb/s.
Concatenated payload support	Works in Series 90 and BSTS mainframes
Technical Specifications	Model: E1676B

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	E1676B
Also Known As	E1676b
Instrument Type	multi-rate SONET/SDH analyzer
Rate Low	51.84 Mb/s STS-1/STM-0
Rate Sts3	155.52 Mb/s STS-3/STM-1
Rate Sts12	622.08 Mb/s STS-12/STM-4
Rate High	2.488 Gb/s STS-48/STM-16
Rate Span Listed	51 to 2488 Mb/s
Card Format	C-size VXI
Partner Platform	HP 75000 Series 90 Modular SONET/SDH Analyzer
Partner Bsts	E4200/E4210 Broadband Series Test System
Related Toh Analyzer	E1675A STS-48/STM-16 transport overhead analyzer
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Related Spe Generator	E1681A SONET/SDH SPE generator
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Notes

From HP/Agilent E1676B catalog identity (51-2488 Mb/s SONET/SDH analyzer VXI module, Series 90/BSTS).
Pointer, BIP, and PRBS limits belong on the E1676B Series 90 technical data matching firmware.

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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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.