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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E1618A

HP Agilent E1618A 622 Mb/s Optical Line Interface The Agilent E1618A is a single-slot C-size VXI OC-12c optical line interface for the Broadband Series Test System. OEM E1618A listings describe STS-12c/STM-4c access through SC optical connectors, single-mode optics usable on multimode with an attenuator, full-rate 622 Mb/s SONET/SDH generation and analysis, BIP error injection/detection, and transport-overhead build/capture. OC-12c/STM-4c ATM physical-layer testing in E4200/E4210 BSTS chassis with E4209B Cell Protocol Processor. The Agilent E1618A is a single-slot C-size VXI OC-12c optical line interface for the Broadband Series Test System. OEM E1618A listings describe STS-12c/STM-4c access through SC optical connectors, single-mode optics usable on multimode with an attenuator, full-rate 622 Mb/s SONET/SDH generation and analysis, BIP error injection/detection, and transport-overhead build/capture. OC-12c/STM-4c ATM physical-layer testing in E4200/E4210 BSTS chassis with E4209B Cell Protocol Processor. Full-rate 622 Mb/s SONET/SDH generation and analysis



MODEL

**Agilent / Keysight
E1618A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E1618A

LISTING

<https://aumictechlabs.com/products/e1618a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight E1618A is a 622 Mb/s optical line interface module for SONET/SDH (OC-12c/STM-4c) testing within the Agilent Broadband Series Test System. It delivers full-rate signal generation, analysis, and error injection across single-mode SC optical connectors and electrical interfaces, supporting comprehensive transport overhead manipulation and alarm

characterization. Technical Specifications Data Rate: 622 Mb/s (full-rate) Protocol Support: SONET/SDH (OC-12c, STS-12c, STM-4c) Optical Interface: SC connectors, single-mode; adaptable to multi-mode with attenuator Electrical Interface: 622 Mb/s Module Form Factor: 1-Slot C-Size VXI module Key Features SONET/SDH transport overhead building, generation, error injection, and capture with save/load functionality Alarm generation and detection including automatic REI (Remote Error Indication) alarm synthesis BIP (Bit Interleaved Parity) error injection and detection across overhead bytes Payload pointer testing with pointer stress generation and synchronization loss measurement Trace message generation and capture in 16 and 64-byte formats for section and path overhead External triggering for event synchronization with external test equipment Real-time statistics graphing and logging with multi-measurement correlation Tcl and C-scripting support for automated test environments (UPE) Typical Applications SONET/SDH line and section overhead characterization Pointer synchronization integrity verification Alarm and error behavior validation under controlled injection conditions ATM traffic and signaling analysis via integrated stream processing OAM protocol testing and network impairment simulation Compatibility & Integration The E1618A operates as a component within the Agilent Broadband Series Test System and integrates with the E1609A 0-622 Mb/s ATM Stream Processor for ATM traffic analysis, the E4209B Cell Protocol Processor for signaling and higher-layer testing, the E4219A ATM Network Impairment Module, and the E6270A OAM Protocol Tester for comprehensive multi-layer validation.

E1618A Characteristics / Specifications

PARAMETER	VALUE
Model	E1618A
Instrument Type	622 Mb/s optical ATM line interface
Line Rate	622.08 Mb/s STS-12c/STM-4c
Optical Connectors	SC/PC
Fiber Class	single-mode (multimode with appropriate attenuator)
Card Format	1 slot C-size VXI
Partner Processor	E4209A/B Cell Protocol Processor
Partner Chassis	E4200A/B Form-7 or E4210A/B Form-13
Mapping	OC-12c concatenated ATM
Error Injection	BIP
Alarm Functions	generation and detection
Overhead	SONET/SDH transport overhead build and capture
Use Case	622 Mb/s optical ATM access
Manufacturer	HP Agilent Keysight
Related Optical 1	E1697A 155 Mb/s STS-3c/STM-1 optical
Related Electrical Ds	E1616A DS1/DS3
Related Electrical E	E1610A 34 Mb/s E3
Sts12c Payload Rate Class	599.04 Mb/s ATM cell rate class
Wavelength Class	1310 nm intermediate-reach class optical LIFs in BSTS
Form Factor Depth	C-size VXI
System Role	BSTS 622 Mb/s optical LIF
Standards Family	SONET GR-253 and SDH G.707 class
Remote Control	via BSTS UNIX controller
Led Status Class	Failed Error Access Signal as on BSTS LIFs

E1618A Specifications

PARAMETER	VALUE
HP Agilent E1618A 622 Mb/s Optical Line Interface	Overview
Applications	OC-12c/STM-4c ATM physical-layer testing in E4200/E4210 BSTS chassis with E4209B Cell Protocol Processor.
Key Features	Full-rate 622 Mb/s SONET/SDH generation and analysis
Technical Specifications	Model: E1618A

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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Line Rate	622.08 Mb/s STS-12c/STM-4c
Optical Connectors	SC/PC
Fiber Class	single-mode (multimode with appropriate attenuator)
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Overhead	SONET/SDH transport overhead build and capture
Use Case	622 Mb/s optical ATM access
Manufacturer	HP Agilent Keysight
Related Optical 155	E1697A 155 Mb/s STS-3c/STM-1 optical
Related Electrical Ds3	E1616A DS1/DS3
Related Electrical E3	E1610A 34 Mb/s E3
Sts12c Payload Rate Class	599.04 Mb/s ATM cell rate class
Wavelength Class	1310 nm intermediate-reach class optical LIFs in BSTS
Form Factor Depth	C-size VXI
System Role	BSTS 622 Mb/s optical LIF
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Notes	
From Agilent E1618A 622 Mb/s Optical Line Interface product listings (OC-12c/STM-4c, SC/PC, 1-slot C-size	

VXI, BIP and TOH functions). Optical power and exact wavelength belong on the E1618A datasheet matching the installed optics.

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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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.