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**Data Sheet**

August 15, 2026

AGILENT / KEYSIGHT

## Agilent/Keysight E1696A

HP Agilent E1696A Optical SONET/SDH Load Generator The HP E1696A is an optical SONET/SDH load generator for the Broadband Series Test System. OEM 1997 BSTS catalog lists E1696A under network and equipment characterization alongside the E4219A impairment emulator and E4223A policing software. Optical SONET/SDH load generation for ATM transport characterization and network-element stress in BSTS racks. Instrument Type: optical SONET/SDH load generator The HP E1696A is an optical SONET/SDH load generator for the Broadband Series Test System. OEM 1997 BSTS catalog lists E1696A under network and equipment characterization alongside the E4219A impairment emulator and E4223A policing software. Optical SONET/SDH load generation for ATM transport characterization and network-element stress in BSTS racks. Instrument Type: optical SONET/SDH load generator Partner Processor: E4209B Cell Protocol Processor



MODEL

**Agilent / Keysight  
E1696A**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**E1696A**

LISTING

<https://aumictechlabs.com/products/e1696a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

### This unit

The Agilent/Keysight E1696A is a logic analyzer probe adapter that bridges connections between logic analyzer probes and devices under test. This adapter enables signal acquisition and analysis while maintaining signal integrity and reliable electrical contact during digital circuit testing and debugging operations. Technical Specifications The E1696A interfaces with Agilent/Keysight logic analyzer systems through multiple connector standards. Compatible probe connections include

3M-style connectors with 20 pins on 0.1-inch centers for 40-pin pod analyzers, 90-pin high-density connectors for 90-pin pod systems, Mictor connectors, and 100-pin Samtec connectors used with differential and single-ended probing solutions.

**Key Features**

- Signal integrity maintained across wide frequency spectrum with minimized capacitive loading at higher frequencies
- Micro spring-pin contact technology ensures reliable connections on uneven or contaminated surfaces
- Strain relief mechanical design prevents signal degradation from probe movement
- High transient noise immunity protects captured data integrity
- Connectorless probing options available - soft touch probes eliminate need for board-mounted connectors
- Low capacitive loading designs support high-speed applications exceeding 2.5 Gbits/s

**Typical Applications**

The E1696A serves digital circuit testing workflows requiring accurate signal acquisition from multiple device nodes simultaneously. Applications include logic state analysis, protocol debugging, timing validation, and multi-channel signal correlation on complex electronic assemblies.

**Compatibility & Integration**

This adapter integrates with Agilent/Keysight logic analyzer platforms featuring 40-pin, 90-pin, Mictor, and 100-pin Samtec pod connectors. Related probing solutions - including the E5351A (unterminated Mictor), E5339A (low voltage Mictor), E5379A (differential Samtec), and E5378A (single-ended Samtec) - utilize compatible probe connector kits for seamless system integration.

## E1696A Characteristics / Specifications

| PARAMETER                 | VALUE                                                  |
|---------------------------|--------------------------------------------------------|
| Model                     | E1696A                                                 |
| Instrument Type           | optical SONET/SDH load generator                       |
| Card Format               | C-size VXI                                             |
| Partner Platform          | E4200/E4210 BSTS                                       |
| Partner Processor         | E4209B Cell Protocol Processor                         |
| Partner Impairment        | E4219A ATM Network Impairment Emulator                 |
| Related Optical 1         | E1697A 155 Mb/s optical LIF                            |
| Related Optical 6         | E1618A 622 Mb/s optical LIF                            |
| Related Atm Generator     | E1693A 155 Mb/s ATM generator                          |
| Manufacturer              | HP Agilent Keysight                                    |
| Use Case                  | optical load generation for ATM/SONET characterization |
| Standards Family          | SONET/SDH                                              |
| Remote Control            | BSTS UNIX controller                                   |
| System Role               | optical load generator                                 |
| Form Factor               | C-size VXI module                                      |
| Bus                       | VXI                                                    |
| Rate Class Sts            | 155.52 Mb/s with 155 optical LIFs                      |
| Medium                    | optical                                                |
| Slot Family               | BSTS VXI                                               |
| Catalog Group             | network and equipment characterization                 |
| Related Policing Software | E4223A                                                 |
| Wavelength Class          | 1310 nm class BSTS optical modules                     |

# E1696A Specifications

| PARAMETER                                          | VALUE                                 |
|----------------------------------------------------|---------------------------------------|
| HP Agilent E1696A Optical SONET/SDH Load Generator | Overview                              |
| BSTS characterization module                       | Works with E4209B and line interfaces |
| Technical Specifications                           | Model: E1696A                         |

# 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                                                                                                                                                | E1696A                                                 |
| Instrument Type                                                                                                                                      | optical SONET/SDH load generator                       |
| Card Format                                                                                                                                          | C-size VXI                                             |
| Partner Platform                                                                                                                                     | E4200/E4210 BSTS                                       |
| Partner Processor                                                                                                                                    | E4209B Cell Protocol Processor                         |
| Partner Impairment                                                                                                                                   | E4219A ATM Network Impairment Emulator                 |
| Related Optical 155                                                                                                                                  | E1697A 155 Mb/s optical LIF                            |
| Related Optical 622                                                                                                                                  | E1618A 622 Mb/s optical LIF                            |
| Related Atm Generator                                                                                                                                | E1693A 155 Mb/s ATM generator                          |
| Manufacturer                                                                                                                                         | HP Agilent Keysight                                    |
| Use Case                                                                                                                                             | optical load generation for ATM/SONET characterization |
| Standards Family                                                                                                                                     | SONET/SDH                                              |
| Remote Control                                                                                                                                       | BSTS UNIX controller                                   |
| System Role                                                                                                                                          | optical load generator                                 |
| Form Factor                                                                                                                                          | C-size VXI module                                      |
| Bus                                                                                                                                                  | VXI                                                    |
| Rate Class Sts3                                                                                                                                      | 155.52 Mb/s with 155 optical LIFs                      |
| Rate Class Sts12                                                                                                                                     | 622.08 Mb/s with 622 optical LIFs                      |
| Medium                                                                                                                                               | optical                                                |
| Slot Family                                                                                                                                          | BSTS VXI                                               |
| Catalog Group                                                                                                                                        | network and equipment characterization                 |
| Related Policing Software                                                                                                                            | E4223A                                                 |
| Wavelength Class                                                                                                                                     | 1310 nm class BSTS optical modules                     |
| Notes                                                                                                                                                |                                                        |
| From HP BSTS catalog identity for E1696A Optical (SONET/SDH) Load Generator. Launch power and connector style belong on the E1696A module datasheet. |                                                        |

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto: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.