

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E1553A

HP Agilent E1553A Dual STS-1/DS3 Amplifier LBO VXI Module The HP E1553A is a dual STS-1/DS3 amplifier with line build-out (LBO) for VXI telecom test. OEM VXI/telecom catalogs list E1553A as Dual STS-1/DS3 Amplifier/LBO used with E155x SONET/DS3 switching and the E1667A jitter analyzer in broadband VXI systems. STS-1/DS3 signal conditioning, LBO emulation, and dual-channel telecom path amplification in VXI SONET/SDH racks. Instrument Type: Dual STS-1/DS3 amplifier with LBO The HP E1553A is a dual STS-1/DS3 amplifier with line build-out (LBO) for VXI telecom test. OEM VXI/telecom catalogs list E1553A as Dual STS-1/DS3 Amplifier/LBO used with E155x SONET/DS3 switching and the E1667A jitter analyzer in broadband VXI systems. STS-1/DS3 signal conditioning, LBO emulation, and dual-channel telecom path amplification in VXI SONET/SDH racks. Instrument Type: Dual STS-1/DS3 amplifier with LBO Related Switch: E1552A test access switch



MODEL

**Agilent / Keysight
E1553A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E1553A

LISTING

<https://aumictechlabs.com/products/e1553a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight E1553A is a VXI data acquisition module engineered for signal capture and analysis across diverse measurement environments. This module delivers versatile input/output configurations, high sampling rates, and deep onboard memory to support transient recording, stimulus-response testing, and real-time signal processing tasks. Advanced triggering options enable precise data capture initiation based on specific signal events, while native support for

VXIplug&play and SCPI standards ensures straightforward integration into existing VXI-based test systems. Technical Specifications The E1553A operates within VXI architecture standards and leverages established instrument control protocols for system development and automated test applications. Key Features Versatile I/O configurations accommodating diverse input and output requirements High sampling rates for capturing fast transient events and detailed signal characteristics Deep onboard memory for storing large datasets during high-speed acquisition or extended test duration Flexible triggering options to precisely initiate data capture based on signal events Real-time signal processing capability for on-module computation and analysis

VXIplug&play and SCPI standard compliance for straightforward programming and system integration Typical Applications Transient event recording and analysis Stimulus-response testing and characterization Automated test and measurement systems Control systems data logging Real-time signal monitoring and processing

Compatibility & Integration The E1553A integrates into VXI-based test architectures through standard VXIplug&play and SCPI command sets, enabling rapid system development and cross-platform instrument compatibility.

E1553A Characteristics / Specifications

PARAMETER	VALUE
Model	E1553A
Instrument Type	Dual STS-1/DS3 amplifier with LBO
Channel Count	2
Signal Rates	STS-1 and DS3
Function	amplifier and line build-out
Module Size	VXI (E155x telecom family)
Related Switch	E1552A test access switch
Related Daisy Chain	E1551A/E1554A
Related Jitter Analyzer	E1667A 52/155/622 MHz SONET/SDH
Manufacturer	HP Agilent Keysight
Use Case	telecom signal conditioning
Operating Temperature Class	0 to 55 C VXI
Power Rails	VXI backplane
Programming	SCPI via command module class
Form Factor	VXI plug-in
Literature	HP E1553A Dual STS-1/DS3 Amplifier/LBO catalog
Connectors	telecom coaxial STS-1/DS3
Lbo	selectable line build-out
Host	VXI broadband test system
Slots Occupied	1 class
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications
Operating temperature	Class: 0 to 55 C VXI

E1553A Specifications

PARAMETER	VALUE
Applications	STS-1/DS3 signal conditioning, LBO emulation, and dual-channel telecom path amplification in VXI SONET/SDH racks.
Key Features	Dual STS-1/DS3 paths
VXI telecom module	Pairs with E1552A test access switch
Technical Specifications	Model: E1553A
Notes	Identity from HP E1553A VXI telecom catalog listings. Exact LBO lengths, gain, and connector types are in the E1553A module specification.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 0 to 55 C VXI
Operating Temperature	Class: 0 to 55 C VXI
Operating Temperature Class	0 to 55 C VXI
Power Rails	VXI backplane
Programming	SCPI via command module class
Form Factor	VXI plug-in
Literature	HP E1553A Dual STS-1/DS3 Amplifier/LBO catalog
Connectors	telecom coaxial STS-1/DS3
Lbo	selectable line build-out
Host	VXI broadband test system
Slots Occupied	1 class
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications Notes Identity from HP E1553A VXI telecom catalog listings. Exact LBO lengths, gain, and connector types are in the E1553A module specification.

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	E1553A
Instrument Type	Dual STS-1/DS3 amplifier with LBO
Channel Count	2
Signal Rates	STS-1 and DS3
Function	amplifier and line build-out
Module Size	VXI (E155x telecom family)
Related Switch	E1552A test access switch
Related Daisy Chain	E1551A/E1554A
Related Jitter Analyzer	E1667A 52/155/622 MHz SONET/SDH
Manufacturer	HP Agilent Keysight
Use Case	telecom signal conditioning
Operating Temperature Class	0 to 55 C VXI
Power Rails	VXI backplane
Programming	SCPI via command module class
Form Factor	VXI plug-in
Literature	HP E1553A Dual STS-1/DS3 Amplifier/LBO catalog
Connectors	telecom coaxial STS-1/DS3
Lbo	selectable line build-out
Host	VXI broadband test system
Slots Occupied	1 class
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications
Notes	
Identity from HP E1553A VXI telecom catalog listings. Exact LBO lengths, gain, and connector types are in the E1553A module specification.	

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>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.