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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E1682A

The HP E1682A isaSONET/SDH synchronous payload envelope receiver VXI module for the 75000 Series 90. OEM catalog listings pair it with the E1681A SPE generator. SPE/path-overhead receive and payload drop in Series 90 SONET/SDH test racks. Partner Generator: E1681A SONET/SDH SPE generator Related Vt Generator: E1683A VT/TU generator Partner Generator: E1681A SONET/SDH SPE generator Related Vt Generator: E1683A VT/TU generator Payload Envelope: synchronous payload envelope From HP E1682A catalog identity (SONET/SDH SPE Receiver, VXI, Series 90). Drop-side connector details belong on the E1682A data sheet.



MODEL

**Agilent / Keysight
E1682A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E1682A

LISTING

[https://aumictechlabs.c
om/products/e1682a-2/](https://aumictechlabs.com/products/e1682a-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight E1682A is a Synchronous Payload Envelope (SPE) Receiver module designed for VXIbus test systems. Operating as a message-based slave interface, the E1682A facilitates command execution and data exchange within modular instrumentation architectures. This C-size, single-slot VXI module integrates into the 75000 series product line and participates in VXIbus backplane communication protocols, enabling coordinated operation alongside controllers and other instrument modules. Technical Specifications Module Classification: VXI Module, C-size, 1-slot configuration Function: Synchronous Payload Envelope (SPE) Receiver Device Type: Message-based Slave Interface Series: 75000 Series Status: Obsolete Key Features

Message-based slave operation requiring a VXI controller or Slot 0 management card Direct VXIbus backplane interface for command and data communication Standard VXIbus protocol compliance for cross-manufacturer system integration Compact single-slot footprint for space-efficient mainframe deployment Typical Applications The E1682A serves in modular test environments where SPE message-based communication is required. Applications include complex instrumentation setups involving multiple VXI modules coordinated through a central controller, particularly in systems requiring synchronized payload envelope reception and processing. Compatibility & Integration The module operates within VXIbus (VMEbus Extensions for Instrumentation) systems, an open architecture standard supporting multi-vendor instrument integration. The E1682A functions as a slave device and requires a VXI mainframe with active controller capability. Compatibility extends to all VXI-compliant mainframes and controller modules that manage message-based device communication. Integration leverages standard VXIbus protocols, with optional support through SCPI command sets and VXIplug&play specifications where applicable.

E1682A Characteristics / Specifications

PARAMETER	VALUE
Model	E1682A
Instrument Type	SONET/SDH SPE receiver
Card Format	C-size VXI
Partner Platform	HP 75000 Series 90
Partner Generator	E1681A SONET/SDH SPE generator
Related Vt Generator	E1683A VT/TU generator
Related Analyzer	E1676B 51 to 2488 Mb/s
Related Toh Analyzer	E1675A
Related Optical Lif	E1662A
Manufacturer	HP Agilent Keysight
Use Case	SPE/path payload receive
Standards Family	SONET/SDH
Remote Control	Series 90 controller
System Role	SPE receiver
Payload Envelope	synchronous payload envelope
Rate Family Low	51.84 Mb/s
Rate Family Mid	155.52 Mb/s
Rate Family High	622.08 Mb/s
Rate Family Sts	2.488 Gb/s
Form Factor	C-size VXI module
Bus	VXI
Path Overhead Class	received with SPE
Mapping Class	STS/STM SPE
Slot Family	Series 90 VXI

E1682A Specifications

PARAMETER	VALUE
HP Agilent E1682A SONET/SDH SPE Receiver	Overview
Applications	SPE/path-overhead receive and payload drop in Series 90 SONET/SDH test racks.
Dedicated SPE receiver	Series 90 VXI module
Works with E1681A SPE generator	Pairs with E1676B multi-rate analyzer
Technical Specifications	Model: E1682A
Notes	From HP E1682A catalog identity (SONET/SDH SPE Receiver, VXI, Series 90). Drop-side connector details belong on the E1682A data sheet.

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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Notes

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