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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E1663A Electrical Interface Module

The HP E1663A is a data communications channel multiplex/demultiplex VXI module for SONET/SDH Section/Line DCC access in the 75000 Series 90. OEM listings include configuration H01. DCC insert/drop and MULDEX testing on SONET/SDH overhead channels in Series 90 racks. Section Dcc Rate Class: 192 kb/s SONET section DCC Line Dcc Rate Class: 576 kb/s SONET line DCC Section Dcc Rate Class: 192 kb/s SONET section DCC Line Dcc Rate Class: 576 kb/s SONET line DCC Sdh Dcc Class: D1-D3 and D4-D12 overhead bytes From HP E1663A catalog identity (DCC MULDEX VXI Module, H01 listed). Byte-level DCC maps belong on the E1663A Series 90 sheet.



MODEL

**Agilent / Keysight
E1663A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E1663A

LISTING

<https://aumictechlabs.com/products/e1663a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight E1663A is a 1-slot C-size VXI electrical interface module designed for the HP Broadband Series Test System. It has bidirectional SONET/SDH signal conversion between optical line interface modules and devices under test, handling data rates of 155.52 Mb/s or 52 Mb/s in Binary Coded Mark Inversion (CMI) format. The module performs automatic clock recovery from incoming data and applies real-time compensation for cable loss and signal degradation, ensuring signal integrity across the test interface. Technical Specifications Data Interface Data rates: 155.52

Mb/s or 52 Mb/s Data format: Binary Coded Mark Inversion (CMI) Electrical input: 75 Ω unbalanced, BNC connector Maximum input amplitude: 0.5 Vpk Input withstand voltage: ± 5 V Open and short circuit protection included Transmit clock input: ECL, SMA connector, 50 Ω termination to -2 V dc nominal Transmit data input: Binary NRZ format, SMA connector Physical Characteristics Form factor: 1-slot C-size VXI module Dimensions: 12 × 10 × 8 in Weight: 10 lbs Environmental Specifications Storage/shipment temperature: -40°C to +75°C Humidity: 50% to 95% RH (25°C to 40°C) Altitude: Up to 4 (unspecified units) Key Features Automatic clock recovery from received data streams Adaptive signal compensation for cable loss and attenuation Signal encoding to DUT-required levels and formats ACCESS LED: VXIbus backplane activity indicator SIGNAL LED: Input signal presence indicator Dual-rate capability supports both 155 Mb/s and 52 Mb/s SONET/SDH applications Typical Applications Opto-electronic test and verification in broadband telecommunications systems. Electrical-to-optical and optical-to-electrical signal interface bridging for SONET/SDH protocol compliance and characterization. Compatibility & Integration Integrates with HP Broadband Series Test System architecture. Partners with HP E1697A (155 Mb/s optical line interface) and HP E1617A (52 Mb/s optical line interface). Module communication via SMA-to-SMB RF adaptor cables.

E1663A Characteristics / Specifications

PARAMETER	VALUE
Model	E1663A
Instrument Type	SONET/SDH DCC MULDEX
Card Format	C-size VXI
Partner Platform	HP 75000 Series 90
Related Toh Receiver	E1673A
Related Toh Analyzer	E1675A
Related Multi Rate Analyzer	E1676B
Related Optical Lif	E1662A
Manufacturer	HP Agilent Keysight
Use Case	DCC multiplex/demultiplex
Standards Family	SONET/SDH DCC
Remote Control	Series 90 controller
System Role	DCC MULDEX
Form Factor	C-size VXI module
Bus	VXI
Section Dcc Rate Class	192 kb/s SONET section DCC
Line Dcc Rate Class	576 kb/s SONET line DCC
Sdh Dcc Class	D1-D3 and D4-D12 overhead bytes
Slot Family	Series 90 VXI
Overhead Layers	section and line
Related Spe Generator	E1681A
Configuration Listed	H01
Mapping Class	DCC in TOH

E1663A Specifications

PARAMETER	VALUE
HP Agilent E1663A DCC MULDEX VXI Module	Overview
Applications	DCC insert/drop and MULDEX testing on SONET/SDH overhead channels in Series 90 racks.
DCC MULDEX function	Series 90 VXI module
Section/Line DCC access	H01 configuration listed
Technical Specifications	Model: E1663A
Notes	From HP E1663A catalog identity (DCC MULDEX VXI Module, H01 listed). Byte-level DCC maps belong on the E1663A Series 90 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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PARAMETER	VALUE
Model	E1663A
Instrument Type	SONET/SDH DCC MULDEX
Card Format	C-size VXI
Partner Platform	HP 75000 Series 90
Related Toh Receiver	E1673A
Related Toh Analyzer	E1675A
Related Multi Rate Analyzer	E1676B
Related Optical Lif	E1662A
Manufacturer	HP Agilent Keysight
Use Case	DCC multiplex/demultiplex
Standards Family	SONET/SDH DCC
Remote Control	Series 90 controller
System Role	DCC MULDEX
Form Factor	C-size VXI module
Bus	VXI
Section Dcc Rate Class: 192 kb/s SONET section DCC	
Specifications	
PARAMETER	VALUE
Line Dcc Rate Class	576 kb/s SONET line DCC
Sdh Dcc Class	D1-D3 and D4-D12 overhead bytes
Slot Family	Series 90 VXI
Overhead Layers	section and line
Related Spe Generator	E1681A
Configuration Listed	H01
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Notes

From HP E1663A catalog identity (DCC MULDEX VXI Module, H01 listed). Byte-level DCC maps belong on the E1663A Series 90 sheet.

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.