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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E1683A

HP Agilent E1683A SONET/SDH VT/TU Generator The HP E1683A is a two-slot VXI VT/TU generator for the 75000 Series 90. OEM catalog listings describe tributary generation into SONET virtual tributaries and SDH tributary units for use with SPE and multi-rate analyzer modules. VT1.5/TU-11 and related tributary generation for mapped DS1/E1 payloads inside STS/STM signals. Instrument Type: SONET/SDH VT/TU generator The HP E1683A is a two-slot VXI VT/TU generator for the 75000 Series 90. OEM catalog listings describe tributary generation into SONET virtual tributaries and SDH tributary units for use with SPE and multi-rate analyzer modules. VT1.5/TU-11 and related tributary generation for mapped DS1/E1 payloads inside STS/STM signals. Instrument Type: SONET/SDH VT/TU generator Use Case: virtual tributary / tributary unit generation



MODEL

**Agilent / Keysight
E1683A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E1683A

LISTING

<https://aumictechlabs.com/products/e1683a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight E1683A is a VXI digital multimeter module engineered for high-speed, high-accuracy measurements in automated test systems. This modular instrument delivers precision across DC and AC voltage/current, resistance, frequency, and temperature measurement functions within demanding test environments. Technical Specifications Measurement Functions DC Voltage (DCV) AC Voltage (ACV) with true RMS capability DC Current (DCI) AC Current (ACI) 2-wire and 4-wire resistance measurements Frequency measurement Temperature measurement

(with compatible sensor) Performance Resolution: 6½ digit or higher Reading Rate: Exceeding 15,000 readings/second DCV Accuracy: 40 ppm (1 year) for 6½ digit models Single Reading Interval: As low as 50 µsKey Features VXI architecture integrates into VME eXtensions for Instrumentation chassis, enabling modular test system configurations with high-speed data transfer. External trigger input and output enable synchronization with multiplexers and companion instruments. Keysight Truevolt technology provides accuracy, linearity, and measurement speed optimization. Typical Applications Automated test systems requiring high-throughput digital measurements. Bench and production testing environments where fast reading rates and precision are critical. Temperature monitoring applications using compatible external sensors. Compatibility & Integration VXI chassis integration. SCPI (Standard Commands for Programmable Instruments) compliance enables remote control and automation. Software drivers support LabVIEW, MATLAB, Visual Studio (C, C++, C#, Visual Basic), and VEE programming environments.

E1683A Characteristics / Specifications

PARAMETER	VALUE
Model	E1683A
Instrument Type	SONET/SDH VT/TU generator
Card Format	2 slot VXI
Partner Platform	HP 75000 Series 90
Partner Spe Generator	E1681A
Partner Spe Receiver	E1682A
Related Analyzer	E1676B 51 to 2488 Mb/s
Related Toh Analyzer	E1675A
Related Optical Lif	E1662A
Manufacturer	HP Agilent Keysight
Use Case	virtual tributary / tributary unit generation
Standards Family	SONET VT and SDH TU
Remote Control	Series 90 controller
System Role	VT/TU generator
Tributary Ds1 Class	VT1.5 1.544 Mb/s mapped
Tributary E1 Class	TU-12 2.048 Mb/s mapped class
Rate Family Sts	155.52 Mb/s
Form Factor	two-slot VXI
Bus	VXI
Mapping Class	VT/TU into SPE
Slot Family	Series 90 VXI
Path Partner	E1681A SPE generator

E1683A Specifications

PARAMETER	VALUE
HP Agilent E1683A SONET/SDH VT/TU Generator	Overview
Applications	VT1.5/TU-11 and related tributary generation for mapped DS1/E1 payloads inside STS/STM signals.
Series 90 payload tributary source	Works with E1681A/E1682A SPE pair
Technical Specifications	Model: E1683A
Notes	From HP E1683A catalog identity (VT/TU Generator, 2-slot VXI, Series 90). Exact tributary mix is configuration-dependent.

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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Use Case	virtual tributary / tributary unit generation
Standards Family	SONET VT and SDH TU
Remote Control	Series 90 controller
System Role	VT/TU generator
Tributary Ds1 Class	VT1.5 1.544 Mb/s mapped
Tributary E1 Class	TU-12 2.048 Mb/s mapped class
Rate Family Sts1	51.84 Mb/s
Rate Family Sts3	155.52 Mb/s
Form Factor	two-slot VXI
Bus	VXI
Mapping Class	VT/TU into SPE
Slot Family	Series 90 VXI
Path Partner	E1681A SPE generator
Notes	
From HP E1683A catalog identity (VT/TU Generator, 2-slot VXI, Series 90). Exact tributary mix is configuration-dependent.	

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.