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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E1466A 16 x 16 Relay Matrix Switch

The Agilent/Keysight E1466A is a C-size, 1-slot, register-based VXI relay matrix switch. OEM materials specify a 4×64 two-wire crosspoint matrix created by the product terminal module on a shared switch card with 256 latching armature relays arranged as four 4×16 submatrices. E1465A/E1466A/E1467A share identical performance specifications except crosstalk, which depends on topology. Large automated test matrix switching, crosspoint expansion across chained modules, and high point-count signal routing in C-size VXI mainframes. Insulation Resistance 40 C 95 Percent RH: 1e8 ohm between any two points Insulation Resistance 25 C 40 Percent RH: 1e9 ohm between any two points Max Two Wire Crosspoints In 13 Slot Mainframe: 3072 with chaining Numeric limits from Agilent/Keysight E1465A/E1466A/E1467A relay matrix switch OEM specifications and user manual Appendix A. Crosstalk tables differ by topology; confirm faceplate/terminal block for installed configuration.



MODEL Agilent / Keysight E1466A	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU E1466A	LISTING https://aumictechlabs.com/products/e1466a-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight E1466A is a C-size VXI relay matrix switch module designed for signal routing in automated test systems. This register-based, 1-slot module delivers a 4×64 two-wire switching matrix with independent high and low switching at each crosspoint. Built on latching

armature relay technology, it minimizes power consumption while maintaining high reliability across large-scale switching applications.

Technical Specifications

Matrix Configuration: 4×64 two-wire switching matrix

Module Type: C-size, 1-slot VXI relay matrix switch

Relay Type: Electromechanical latching armature relays

Maximum Voltage: DC 200 V; AC rms 170 V; Peak 238 V p-p

Maximum Current: 1 A per channel common, non-inductive

Maximum Power: 30 W per channel; 62.5 VA per module (resistive load)

Relay Life: Minimum 10^7 operations at no load

Wire Size: 18 to 26 AWG screw terminals

Power-up State: Relays open upon power-up

Power-down State: Relay states remain unchanged

Key Features

Expandability: Chain multiple modules using QUIC terminal block interconnections to scale row and column configurations. A full 13-slot VXI mainframe supports up to 3072 two-wire crosspoints. Four E1466A modules create a 4×256 matrix configuration.

Modular Terminal Blocks: QUIC easy-to-use terminal blocks enable topology changes via block swap. The E1466A shares the same switch card with E1465A and E1467A modules - terminal block selection determines final matrix configuration.

Channel List Management: Downloadable channel lists stored in onboard memory

Firmware: Downloadable command module firmware

Compatibility & Integration

Programming Support: SCPI (I-SCPI Win 3.1, I-SCPI Series 700, C-SCPI LynxOS, C-SCPI Series 700)

Framework: VXIplug&play Framework (Windows 95/NT)

Drivers: Keysight VXIplug&Play driver support

Physical: Shipping dimensions 12 in. × 12 in. × 6 in.; shipping weight approximately 5 lbs.

E1466A Characteristics / Specifications

PARAMETER	VALUE
Matrix Topology	4×64 two wire
Row Address Range	00 to 03
Column Address Range	00 to 63
Two Wire Crosspoints Per Module	256
Submatrix Arrangement	four 4×16 submatrixes on shared switch card
Relay Type	latching armature
VXI Device Type	register based
Module Size	C
Slots Occupied	1
Maximum Voltage Terminal To Terminal	200 Vdc or 170 Vac rms (238 Vac peak to peak)
Maximum Voltage Terminal To Chassis	200 Vdc or 170 Vac rms (238 Vac peak to peak)
Maximum Current Per Channel	1 Adc or 1 A ac peak non inductive
Maximum Power Per Channel	30 Wdc or 62.5 VA ac resistive
Closed Channel Resistance Initial	<4.0 ohm
Closed Channel Resistance End Of Life	<10.0 ohm
Thermal Offset Per Channel	<5 uV differential Hi Lo
Bandwidth Minus 3 dB Worst Crosspoint	>10 MHz with Zload equals Zsource
Closed Channel Capacitance Hi To Lo	<270 pF
Closed Channel Capacitance Hi To GND	<430 pF
Closed Channel Capacitance Lo To GND	<440 pF
Insulation Resistance 40 C 95 Percent RH	1e8 ohm between any two points
Insulation Resistance 25 C 40 Percent RH	1e9 ohm between any two points
Relay Life No Load	5e6 operations
Relay Life Full Load	1e5 operations
Peak Module Current Plus 5 V	0.10 A

PARAMETER	VALUE
Peak Module Current Plus 12 V	0.18 A
Watts Per Slot Cooling	5 W
Operating Temperature	0 to 55 C
Max Two Wire Crosspoints In 13 Slot Mainframe	3072 with chaining
Bandwidth	Minus 3 dB Worst Crosspoint: >10 MHz with Zload equals Zsource

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 55 C
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Max Two Wire Crosspoints In 13 Slot Mainframe	3072 with chaining Notes Numeric limits from Agilent/Keysight E1465A/E1466A/E1467A relay matrix switch OEM specifications and user manual Appendix A. Crosstalk tables differ by topology; confirm faceplate/terminal block for installed configuration.

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.

performance specifications except crosstalk, which depends on topology.

Applications

Large automated test matrix switching, crosspoint expansion across chained modules, and high point-count signal routing in C-size VXI mainframes.

Key Features

Latching armature relays reduce continuous power draw

QUIC terminal blocks set matrix topology

Daisy chain expansion cable for larger matrices

Downloadable channel lists into onboard memory

Register based VXI control with SCPI via command module

Technical Specifications

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Peak Module Current Plus 5 V	0.10 A
Peak Module Current Plus 12 V	0.18 A
Watts Per Slot Cooling	5 W
Operating Temperature	0 to 55 C

Max Two Wire Crosspoints In 13 Slot Mainframe: 3072 with chaining

Notes

Numeric limits from Agilent/Keysight E1465A/E1466A/E1467A relay matrix switch OEM specifications and user manual Appendix A. Crosstalk tables differ by topology; confirm faceplate/terminal block for installed configuration.

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

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NIST-traceable calibration · SAM registered ·
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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.