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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E1465A 16 x 16 Relay Matrix Switch

The Agilent/Keysight E1465A is a C-size, 1-slot, register-based VXI relay matrix switch. OEM materials specify a 16×16 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
E1465A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E1465A

LISTING

<https://aumictechlabs.com/products/e1465a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight E1465A is a C-size VXI relay matrix switch module delivering 256 crosspoints in a compact 16×16 two-wire configuration. Engineered for automated test, signal routing, and data acquisition, this register-based module handles voltages to 200 Vdc or 170

Vacrms, with per-channel current ratings of 1 A and maximum power dissipation of 30 W per channel. The latching armature relay design ensures low on-resistance - less than 4.0 Ω worst-case and under 1.8 Ω best-case at initial contact, degrading to under 10.0 Ω end-of-life. Insulation resistance exceeds $10^8 \Omega$ under humid conditions and $10^9 \Omega$ at standard lab conditions. Technical Specifications Switching Matrix: 16×16 two-wire relay matrix, 256 total crosspoints Voltage Rating: 200 Vdc or 170 Vacrms (238 Vac peak-to-peak) Current per Channel: 1 Adc or 1 A ac peak (non-inductive) Power per Channel: 30 Wdc maximum; 62.5 VA module maximum (resistive load) Closed Channel Resistance: < 4.0 Ω worst-case initial; < 1.8 Ω best-case initial; $10^8 \Omega$ (40°C, 95% RH); > $10^9 \Omega$ (25°C, 40% RH) Thermal Offset: 10 MHz (worst crosspoint, -3 dB) Closed Channel Capacitance: < 270 pF (Hi-Low); < 430 pF (Hi-Ground); < 440 pF (Lo-Ground) Crosstalk Within Card (worst path, typical): -66 dB <10 kHz; -45 dB <100 kHz; -29 dB <1 MHz Relay Life: 10^7 operations (no load); 5×10^7 operations (no load) Key Features Latching armature relays for power efficiency QUIC easy-to-use terminal blocks; interchangeable blocks enable topology reconfiguration Scalable architecture supporting row and column expansion via chaining cables Compatible with E1466A and E1467A modules for larger matrix configurations Typical Applications Automated test equipment (ATE) signal routing Multi-channel data acquisition and signal monitoring Precision low-level switching in measurement systems Compatibility & Integration Four E1465A modules interconnected create a 32×32 matrix (1024 crosspoints) Full E1401B 13-slot mainframe accommodates up to 3072 two-wire crosspoints across multiple modules Vxibus C-size, register-based control

E1465A Characteristics / Specifications

PARAMETER	VALUE
Matrix Topology	16×16 two wire
Row Address Range	00 to 15
Column Address Range	00 to 15
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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Relay Life Full Load	1e5 operations
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

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.