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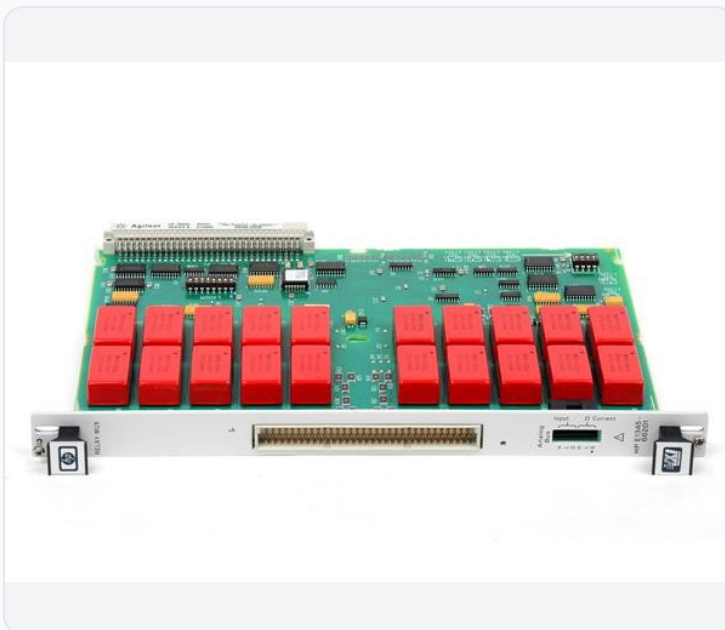
Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E1345A 16-Channel Low-Offset Relay Multiplexer

Agilent E1345A 16 Channel Low Offset Relay Multiplexer The Agilent/Keysight E1345A isaB-size, 1-slot, register-based VXI general-purpose reed relay multiplexer. OEM datasheet 5965-5601E lists 16 channels of high/low/guard with low thermal offset reed relays under 4 μ V, configurable as 16-channel 3-wire or 8-channel 4-wire, with shunt/series signal conditioning positions and scanning with Agilent DMMs. Low-offset scanning voltmeter measurements, 4-wire ohms multiplexing, and general analog signal routing into E1326B/E1411B multimeters. The Agilent/Keysight E1345A isaB-size, 1-slot, register-based VXI general-purpose reed relay multiplexer. OEM datasheet 5965-5601E lists 16 channels of high/low/guard with low thermal offset reed relays under 4 μ V, configurable as 16-channel 3-wire or 8-channel 4-wire, with shunt/series signal conditioning positions and scanning with Agilent DMMs. Low-offset scanning voltmeter measurements, 4-wire ohms multiplexing, and general analog signal routing into E1326B/E1411B multimeters. Low thermal offset reed relays under 4 μ V



MODEL

**Agilent / Keysight
E1345A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E1345A

LISTING

<https://aumictechlabs.com/products/e1345a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight E1345A is a 16-channel low-offset relay multiplexer for precision signal routing in VXI systems. This B-size, 1-slot register-based module uses reed relays with thermal

offset below 4 μV , enabling accurate measurements across multiple configuration topologies. The E1345A can operate as a single 1×16 three-wire multiplexer, two independent 1×8 three-wire multiplexers for four-wire resistance measurements, or an 1×8 six-wire multiplexer. Each of two switch banks provides eight channels with common high, low, and guard screw terminals for flexible signal routing.

Technical Specifications
Module Type: VXI module, B-size, 1-slot
Architecture: Register-based, two banks of eight switches
Channels: 16 total
Relay Type: Reed relay
Thermal Offset: < 4 μV
Signal Routing: Switches high, low, and guard signals
Configuration Modes: - 1×16 three-wire multiplexer
Two independent 1×8 three-wire multiplexers (four-wire capable) - 1×8 six-wire multiplexer

Key Features
Low thermal offset minimizes measurement error in precision applications
Interchangeable terminal blocks compatible with E1343A, E1346A, E1347A, E1355A, and E1356A modules
Shared switch card architecture enables flexible matrix topologies
Supports shunt and series signal conditioning elements
Analog bus connections available for all 16 channels
SCPI command programming support
Channel scanning integration with Keysight Digital Multimeters

Typical Applications
Precision data acquisition with multiple sensor inputs
Four-wire resistance and temperature measurements
Multi-point signal conditioning and routing
Automated test systems requiring low-noise switching

Compatibility & Integration
Designed for VXI chassis deployment. Compatible with Keysight DMMs for scanning functionality. Shares switch card architecture with five related multiplexer modules, enabling reconfigurable matrix systems through terminal block interchange. Programmable via SCPI commands.

E1345A Characteristics / Specifications

PARAMETER	VALUE
Channel Topologies	16×3 wire or 8×4 wire or 1×8 six wire
Banks	two banks of eight switches
Relay Type	reed relays
Maximum Voltage Any Terminal	120 V rms or 170 V peak
Maximum Current Per Channel	50 mA non inductive
Maximum Power Per Channel	1 VA
Maximum Thermal Offset Differential Hi Lo	4 uV
Closed Channel Resistance	100 ohm plus/minus 10 percent
Insulation Resistance Between Any Two Points	1e9 ohm
Minimum Bandwidth Minus 3 dB 50 Ohm	10 MHz with protection resistors shorted
Scanning Rate Typical	600 channels/s
Relay Life Rated Load	1e7 operations
Screw Terminal Wire Size	16 to 26 AWG
Closed Channel Capacitance Hi Lo	less than 50 pF
Closed Channel Capacitance Hi Guard	less than 150 pF
Closed Channel Capacitance Guard Chassis	less than 200 pF
VXI Device Type	register based A16 slave only
Module Size	B
Slots Occupied	1
Connectors	P1
Shared Memory	None
Component Card	E1345-66201
C Size Compatibility	requires E1403C
Analog Bus Cable	shipped with module

PARAMETER	VALUE
Bandwidth	Minus 3 dB 50 Ohm: 10 MHz with protection resistors shorted

E1345A Specifications

PARAMETER	VALUE
Agilent E1345A 16 Channel Low Offset Relay Multiplexer	Overview
Applications	Low-offset scanning voltmeter measurements, 4-wire ohms multiplexing, and general analog signal routing into E1326B/E1411B multimeters.
Key Features	Low thermal offset reed relays under 4 uV
Analog bus cable for slot adjacent modules	Requires E1403C active adapter for C-size mainframes
Technical Specifications	Channel Topologies: 16×3 wire or 8×4 wire or 1×8 six wire

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

Values from Agilent E1345A datasheet 5965-5601E and E1345A user manual Appendix A. Confirm terminal-block wiring and protection-resistor configuration for installed unit.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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30-day returns
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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.