

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

KEYSIGHT / AGILENT / HP

Keysight / Agilent / HP E8462A 256-Channel Relay Multiplexer

Agilent E8462A 256-Channel Relay Multiplexer VXI The Agilent E8462A isaC-size VXI high-density relay multiplexer providing 256 channels for scanning analog signals to a DMM or other instrument. Reed/armature family switching for automated test. Pairs with QUIC or crimp terminal blocks. Related E8460A is another 256-channel mux family member; E8460-80012 is a crimp-and-insert terminal block spare in this catalog. High-channel-count VXI scanning; production analog multiplex to E1411A/E1412A DMM; large fixture cable reduction. The Agilent E8462A isaC-size VXI high-density relay multiplexer providing 256 channels for scanning analog signals to a DMM or other instrument. Reed/armature family switching for automated test. Pairs with QUIC or crimp terminal blocks. Related E8460A is another 256-channel mux family member; E8460-80012 is a crimp-and-insert terminal block spare in this catalog. High-channel-count VXI scanning; production analog multiplex to E1411A/E1412A DMM; large fixture cable reduction.



MODEL

**Keysight / Agilent /
HP E8462A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E8462A

LISTING

[https://aumictechlabs.c
om/products/e8462a-
2/](https://aumictechlabs.com/products/e8462a-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight E8462A is a C-size, 1-slot VXI multiplexer module built on non-latching armature relays for high-density signal routing in automated test and data acquisition systems. With 256 channels and eight programmable switching topologies, it accommodates two-wire, three-wire, and four-wire measurement configurations. Register-based control enables flexible, reconfigurable signal paths across diverse circuit topologies.

Technical Specifications

Switching Architecture 256 total channels across eight configurable topologies: one 256×1 , four 64×1 , one 128×2 , two 32×4 , one 64×3 , eight 32×1

Non-latching armature relays with 5 ms maximum open/close time

Maximum switching current: 2 A @ 30 V

Rated full resistive load: 60 VA

Electrical Ratings

DC voltage: 250 V (Option 012), 60 V (Options 014/015)

AC peak voltage: 350 V (Option 012), 70.7 V (Options 014/015)

Power dissipation: 10 W typical, 30 W maximum per slot

Current draw: +5 V at 1.0 A typical

Environmental & Physical

Operating temperature: 0°C to 55°C

Storage temperature: 0°C to 40°C

Operating humidity: 65% RH (0°C to 40°C)

IEC 664 Pollution Degree 2

Key Features

Eight independent switching topologies support varied measurement configurations without hardware reconfiguration

Terminal block options (sold separately) provide voltage and protection flexibility across three connector variants

Included 2.5-in. analog bus cable (E1400-61605) enables direct slot-adjacent module integration

Register-based control simplifies programmable routing within VXIbus systems

Typical Applications

Automated test systems requiring multi-channel signal distribution, resistance measurement networks, temperature sensor multiplexing, and multi-point data acquisition with configurable measurement topologies.

Compatibility & Integration

Register-based VXI module designed for E1400-series VXIbus systems. Direct compatibility with E1411B multimeter modules via included analog bus cable. Terminal block integration requires separate procurement of appropriate Option 012, 014, or 015 terminal card.

Features & description

From manufacturer datasheet

Features

- 256-channel VXI multiplexer in C-size

E8462A Characteristics / Specifications

PARAMETER	VALUE
Model	E8462A
Manufacturer	Agilent / Hewlett Packard / Keysight
Instrument Type	VXI Relay Multiplexer
Alias	E8462A; Agilent E8462A
Channel Count	256
VXI Size	C-size
Switch Function	high-density relay multiplexer (scan to DMM/instrument)
Typical Wiring	2-wire mux (1-wire high-density configuration per manual)
Voltage Class	200 V class VXI mux family (confirm terminal block rating)
Current Class	1 A class switch family (confirm relay type)
Terminal Accessory	QUIC or crimp/insert blocks
Related Terminal	E8460-80012 crimp and insert terminal block
Related E8460A	256-channel multiplexer sibling
Related E1476A	64-channel 3-wire reed mux
Related E1460A	64-channel relay mux family
Host	C-size VXI mainframe
Command Path	E1406A Slot 0 SCPI
Scan Mate	E1411A / E1412A VXI DMM
Relay Type	high-density reed/armature per E8462A sheet
Cooling	VXI C-size airflow
Status	Agilent E8462A EOL
Isolation	channel-to-channel per mux family
Switching Speed	relay operate/release per data sheet
Carry Current	limited by relay and terminal block
Path Resistance	closed-channel resistance per family

PARAMETER	VALUE
Thermal Offset	thermocouple scanning caution (use compensation block if required)
NotAMatrix	multiplexer topology not full crosspoint unless reconfigured
Software	SCPI switch commands Notes 256-channel C-size VXI mux identity from Agilent E8462A product literature. Exact volts amps and topology (1-wire vs 2-wire vs 4-wire) are jumper/terminal-block dependent: confirm the installed block and the E8462A configuration guide. Do not invent contact resistance.

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	
Specifications	
PARAMETER	VALUE
Model	E8462A
Manufacturer	Agilent / Hewlett Packard / Keysight
Instrument Type	VXI Relay Multiplexer
Specifications	
PARAMETER	VALUE
Alias	E8462A; Agilent E8462A
Channel Count	256
VXI Size	C-size
Specifications	
PARAMETER	VALUE
Switch Function	high-density relay multiplexer (scan to DMM/instrument)
Typical Wiring	2-wire mux (1-wire high-density configuration per manual)
Voltage Class	200 V class VXI mux family (confirm terminal block rating)
Specifications	
PARAMETER	VALUE
Current Class	1 A class switch family (confirm relay type)
Terminal Accessory	QUIC or crimp/insert blocks
Related Terminal	E8460-80012 crimp and insert terminal block
Specifications	
PARAMETER	VALUE
Related E8460A	256-channel multiplexer sibling
Related E1476A	64-channel 3-wire reed mux
Related E1460A	64-channel relay mux family

Specifications

PARAMETER	VALUE
Host	C-size VXI mainframe
Command Path	E1406A Slot 0 SCPI
Scan Mate	E1411A / E1412A VXI DMM

Specifications

PARAMETER	VALUE
Relay Type	high-density reed/armature per E8462A sheet
Cooling	VXI C-size airflow
Status	Agilent E8462A EOL

Specifications

PARAMETER	VALUE
Isolation	channel-to-channel per mux family
Switching Speed	relay operate/release per data sheet
Carry Current	limited by relay and terminal block

Specifications

PARAMETER	VALUE
Path Resistance	closed-channel resistance per family
Thermal Offset	thermocouple scanning caution (use compensation block if required)
NotAMatrix	multiplexer topology not full crosspoint unless reconfigured

Software: SCPI switch commands

Notes

256-channel C-size VXI mux identity from Agilent E8462A product literature. Exact volts amps and topology (1-wire vs 2-wire vs 4-wire) are jumper/terminal-block dependent: confirm the installed block and the E8462A configuration guide. Do not invent contact resistance.

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>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.