

KEYSIGHT TECHNOLOGIES (AGILENT HP)

E1364A

The Keysight (Agilent) E1364A is a B-size, 1-slot, register-based VXI module containing 16 independent SPDT (Form C) switches. It features latching armature relays capable of carrying 1 A of current, making it ideal for general-purpose switching, scanning, control, or digital output applications. The module also supports internal routing of +5 V or +12 V supplies for actuating external devices and retains switch positions when power is removed.

SPECIFICATIONS

General

Interfaces	VXIbus (Register-based)
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Physical

Power Supply	VXIbus Backplane (+5 V, +12 V)
Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	VXI B-size, 1-slot mm
Weight	0.86 kg
Terminal Wire Size	18 AWG maximum

Module Architecture & Compatibility

Module Type	Register-based
Form Factor	VXI B-size
Slot Width Requirement	1 slot
Backplane Interface Bus	VXIbus

Channel & Switching Topology

Number of Channels	16
Switch Configuration	SPDT (Form C)
Relay Technology Type	Latching armature
Contact Form Configuration	Form C
Poles per Channel	1
Simultaneous Channel Switching	Supported
Relay State Retention	Latching relays remain in the last position when power is removed

DC & Low Frequency Electrical Specifications

Maximum Switching Voltage (DC)	250 V
Maximum Switching Voltage (AC RMS)	250 V
Maximum Switching Current	1 A
Maximum Carry Current	1 A
Digital Output Configuration	Jumpers/resistors allow connection of each channel to internal +5 V or +12 V supplies
Maximum Current from Internal +5 V Supply	1 A per module
Maximum Current from Internal +12 V Supply	0.5 A per module

Timing & Switching Speed

Relay Close Time	< 15 ms
Relay Open Time	< 15 ms

Physical Connectivity & Interfacing

Terminal Block Connection	Included screw terminal block
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Performance

Maximum Switching Power	60 W (DC), 125 VA (AC)
Thermal Offset	< 7 μ V
Bandwidth	10 MHz (-3 dB, 50 Ω source/load)
Crosstalk	-55 dB @ 100 kHz, -35 dB @ 1 MHz, -15 dB @ 10 MHz
Closed Channel Capacitance	< 15 pF (channel-to-channel), < 50 pF (channel-to-chassis)
Insulation Resistance	> 10 ⁹ Ω (at 40°C, 65% RH)
Contact Resistance	< 1.0 Ω (initial), < 2.0 Ω (end of life)

Reliability

Expected Relay Life (No Load)	50,000,000 operations
Expected Relay Life (Rated Load)	100,000 operations

System

VXI Device Type	Register-based (A16, D16)
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Environmental

Storage Temperature Range	-40 °C to +75 °C
Cooling Airflow Requirement	0.05 L/s
Cooling Pressure Drop	0.01 mm H ₂ O

Interface & Programming

VXI Device Class	Register-based
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Accessories

Terminal Block Options	Option 100 (Screw), Option 200 (Solder)
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TECHNOLOGY

VXI Module

APPLICATIONS

General-purpose switching, scanning, control, and digital output applications

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