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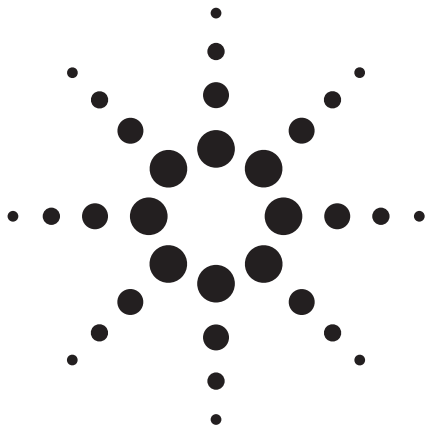
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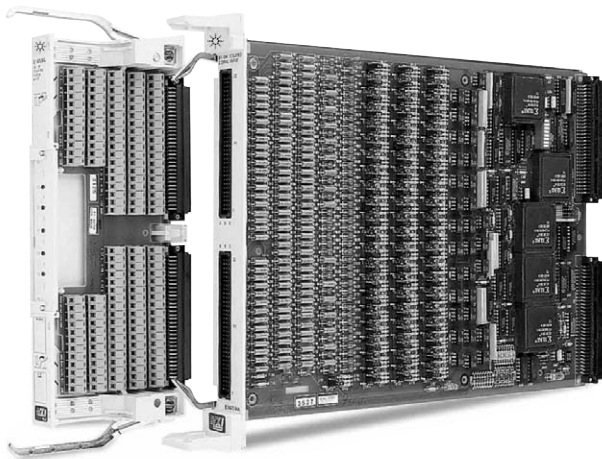


# Agilent E1459A

## 64-Channel Isolated Digital Input/Interrupt

### Data Sheet

- 1-Slot, C-size, register based
- 64 interrupts, maskable and edge-selectable
- Jumper-selectable input levels
- Time-programmable debounce
- On-board 5 V supply for pull-up capability
- Handshake lines for each word (16 channels)



Agilent E1459A

### Description

The Agilent E1459A 64-Channel Isolated Digital Input/Interrupt is a **C-size, 1-slot, register-based VXI module**. It is used to sense dc levels and edge transitions up to 48 Vdc. All inputs are optically isolated to withstand up to 125 V rms or Vdc. Plus, using the module's built-in 5 V supply with 9.4 k $\Omega$  effective pull-up resistance, you can detect whether external switches are open or closed.

The debounce feature is programmable for periods of 16  $\mu$ s to 1074 s in binary increments. Channel groups 1 to 32 and 33 to 64 can each have a unique programmed debounce period.

Each word (16-bit/channel) has strobe in, ready for data, and interrupt out. Strobe-in lines can be connected in parallel for 32- or 64-bit transfers.

Refer to the Agilent Technologies Website for instrument driver availability and downloading instructions, as well as for recent product updates, if applicable.



## Product Specifications

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### Input

<b>Voltages:</b>	5, 12, 24, 48 Vdc
<b>Threshold:</b>	
<b>min.:</b>	1, 2.5, 7, 14
<b>max.:</b>	4, 9.5, 17, 31
<b>Currents:</b>	0.5, 1.3, 2.8, 5.8 mA (at nominal voltages)
<b>Maximum input voltage:</b>	60 Vdc (Between High and Low terminal of each channel), 125 V rms or Vdc (Between channels or between any terminal and chassis)
<b>Minimum input pulse width:</b>	100 ms + debounce time
<b>Debounce:</b>	Programmable from 16 $\mu$ s to 1074 s

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### Output

<b>5 volt supply:</b>	4.5 to 5.5 Vdc (at 32 mA total maximum)
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## General Characteristics

<b>Number of channels:</b>	64
<b>Channel type:</b>	Input
<b>Output or input type:</b>	Variable
<b>Memory:</b>	n/a
<b>Max. pattern rate:</b>	n/a
<b>32-bit block transfer:</b>	n/a
<b>Test synchronization:</b>	n/a
<b>Typical time to read 16-bit word:</b>	1 ms, using register access
<b>Terminal module:</b>	Removable, with screw-type terminals
<b>Maximum wire size:</b>	16 AWG (1.5mm)

## General Specifications

### VXI Characteristics

VXI device type:	Register based
Data transfer bus:	A16, slave only
Size:	C
Slots:	1
Connectors:	P1/P2
Shared memory:	None
VXI busses:	None
C-size compatibility:	n/a

### Instrument Drivers

See the Agilent Technologies Website ([http://www.agilent.com/find/inst\\_drivers](http://www.agilent.com/find/inst_drivers)) for driver availability and downloading.

Command module firmware:	Downloadable
Command module firmware rev:	A.08
I-SCPI Win 3.1:	No
I-SCPI Series 700:	No
C-SCPI LynxOS:	No
C-SCPI Series 700:	No
Panel Drivers:	No
VXI plug&play Win Framework:	No
VXI plug&play Win 95/NT Framework:	Yes
VXI plug&play HP-UX Framework:	No

### Module Current

	I <sub>PM</sub> (A)	I <sub>DM</sub> (A)
+5 V:	0.19	0.10
+12 V:	0	0
-12 V:	0	0
+24 V:	0	0
-24 V:	0	0
-5.2 V:	0	0
-2 V:	0	0

### Cooling/Slot

Watts/slot:	1.00
ΔP mm H <sub>2</sub> O:	0.05
Air flow liter/s:	0.42

### Ordering Information

Description	Product No.
64-Channel Isolated Digital Input/Interrupt	E1459A

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