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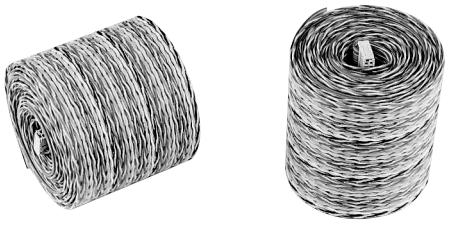
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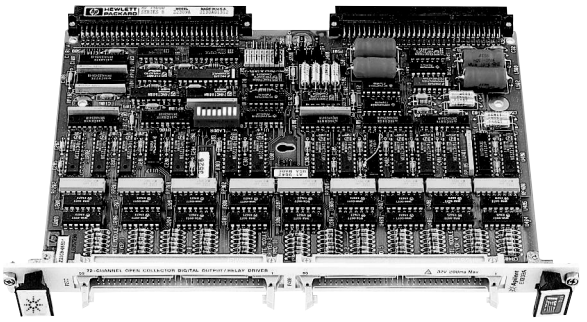
Find the *Keysight / Agilent Z2309A* at our website: *Click HERE*

Agilent E1339A
72-Channel Digital Output/Relay Driver

Data Sheet

- **1-Slot, B-size, register based**
- **Digital output or dense relay driver**
- **Open Collector outputs switch up to 32 V**
- **Relay coil flyback protection**
- **Power for driver external devices**
- **Output cables supplied**





Agilent E1339A

Description

The Agilent Technologies E1339A 72-Channel Digital Output/Relay Driver is a **B-size, 1-slot, register-based VXI module**. Channels can be used (with external pull-up resistors) as digital outputs or as drivers for external relays.

All channels are referenced to chassis ground, can sink up to 200 mA each, and can switch voltages up to 32 V. Limited power is available on the module faceplate for powering external devices. An on-board jumper permits either the +5, +12, or +24 V VXI power supplies to be used for powering external devices.

Please note that +24 volt power is not available on Agilent B-size VXI mainframes. If +24 volt load power is required in such a case, an external power supply may be used. +24 volt power is available on Agilent C-size mainframes.

The downloadable SCPI and VXI*plug&play* drivers provide open/close commands for individual 72-channel operation or for 36-channel dual output operation (the latter is designed specifically for driving latching microwave relays).

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

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Connectors

User connection to the E1339A is implemented through two 60-pin faceplate ribbon cable headers with cable securing clips/extractors. Two 2-meter long-twisted pair ribbon mating cables with ribbon connectors are supplied with the module. The user-end of these cables is unterminated.

C-size Adapter

For adapting the E1339A to a C-size mainframe, the E1407A Adapter is recommended.

Product Specifications

General

Number of channels:	72
Channel type:	Output
Output or input type:	Open collector
Sink current per channel:	200 mA
Maximum open collector voltage:	32 V
Maximum available current (only one of the three internal power supplies can be selected):	
+5 V:	1A (fused and requires P2)
+12 V:	1A (fused)
+24 V:	1 A (fused and requires P2)

General Specifications

VXI Characteristics

VXI device type:	Register based
Data transfer bus:	n/a
Size:	B
Slots:	1
Connectors:	P1/P2
Shared memory:	None
VXI buses:	None
C-size compatibility:	Yes, requires E1407A

Instrument Drivers - See the Agilent Technologies Website (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-CSPI Lynx OS:	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_{PM} (A)	I_{DM} (A)
+5 V:	0.10	0.10
+12 V:	0.10	0.01
–12 V:	–	–
+24 V:	–	–
–24 V:	–	–
–5.2 V:	–	–
–2 V:	–	–

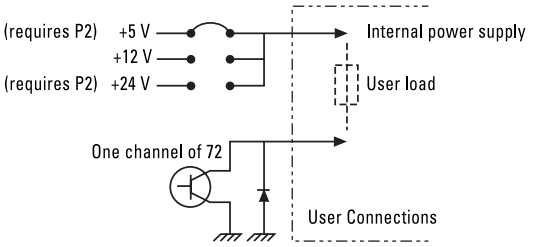
Cooling/Slot

Watts/slot:	6
ΔP mm H_2O:	0.05
Air flow liter/s:	0.42

Ordering Information

Description	Product No.
72-Channel Digital Output/Relay Driver	E1339A
Service Manual	E1339A 0B3
3 Yr. Retn. to Agilent to 1 Yr. OnSite Warr.	E1339A W01

E1339A Circuit Diagram



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Taiwan:
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(fax) (886 2) 2545 6723

Other Asia Pacific Countries:
(tel) (65) 375 8100
(fax) (65) 836 0252
Email: tm_asia@agilent.com

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