

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

Description

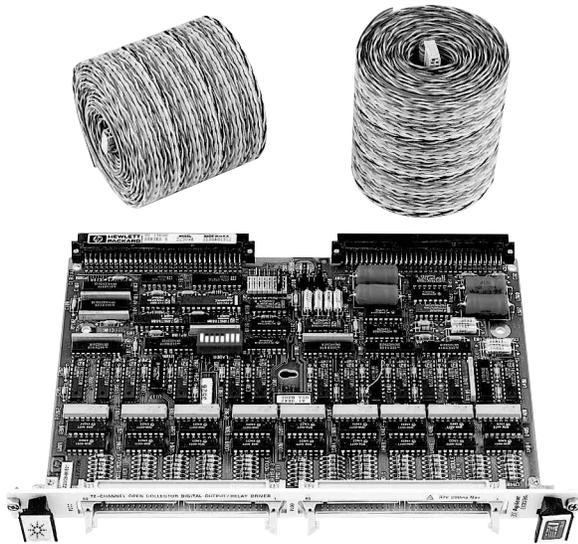
The Agilent Technologies E1339A 72-Channel Digital Output/Relay Driver is a **B-size, 1-slot, register-based VXI module**. Channels can be used (with external pull-up resistors) as digital outputs or as drivers for external relays.

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 *VXIplug&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.



Agilent E1339A



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: | 1 A (fused and requires P2) |
| +12 V: | 1 A (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 |
| VXIplug&play Win Framework: | No |
| VXIplug&play Win 95/NT Framework: | Yes |
| VXIplug&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: | — | — |

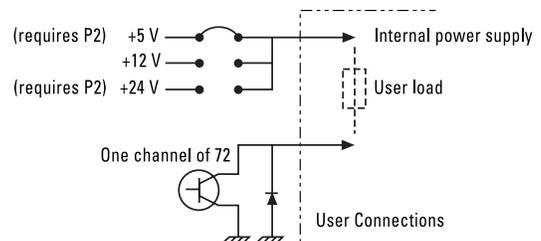
Cooling/Slot

| | |
|---------------------------------|------|
| Watts/slot: | 6 |
| ΔP mm H ₂ O: | 0.05 |
| Air flow liter/s: | 0.42 |

Ordering Information

| Description | Product No. |
|---|----------------------|
| 72-Channel Digital Output/Relay Driver Service Manual | E1339A E1339A 0B3 |

E1339A Circuit Diagram



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Data Subject to Change

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