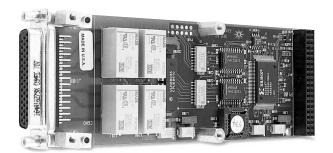


Agilent E2274A 4-Channel Form C Power Relay M-Module

Data Sheet

- Single wide, register based
- 4 SPDT armature relays for general purpose switching
- Use to switch power supplies



Agilent E2274A

Description

The Agilent E2274A 4-Channel Form C Power Relay switch is a single-wide, register-based M-Module. It provides four individual Form C (SPDT) channels for general purpose switching and control of external devices. With its heavier 5A current, it can easily switch external power supplies.

Logic on the card provides for maskable interrupts (INTC type) once the requested relay movement is complete.

With each M-Module having its own address within the E2250A and E2251A M-Module carriers, you have the

flexibility to use the M-Modules in many combinations. This flexibility allows you to get the amount of functionality you need in smaller blocks, lowering your overall system costs. Please see the E2250A or E2251A Technical Specifications for M-Module slot requirements.

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



Product Specifications

Input

Maximum voltage (C to NC or NO or any terminal-to-chassis):

Note: These limits apply only if the product is installed in a humidity-controlled (<60% RH) environment where airborne contaminants and transients are controlled, and no relay connection is made to power mains. If these conditions cannot be maintained, then 60 Vdc, 48 Vac-rms or 68 Vac-peak voltage limit applies.

| DC: | 60 V/125 V (see note) | | |
|---------------------------------|-----------------------|--|--|
| AC rms: | 48 V/141 V (see note) | | |
| AC peak: | 68 V/200 V (see note) | | |
| Maximum current (noninductive): | | | |
| DC: | 5 A | | |
| AC rms: | 3.5 A | | |
| AC peak: | 5 A | | |
| Maximum power: | | | |
| Per switch: | | | |
| DC: | 100 W | | |
| AC: | 100 VA | | |
| Per module: | | | |
| DC: | 300 W | | |
| AC: | 300 VA | | |
| | | | |

AC

| Typical bandwidth (–3 dB): | 10 MHz (typical) | | | |
|------------------------------------|-------------------|--|--|--|
| Crosstalk (dB,channel-to-channel): | | | | |
| <10 kHz: | n/a | | | |
| <100 kHz: | <-80 dB (typical) | | | |
| <1 MHz: | <-60 dB (typical) | | | |
| <10 MHz: | <-40 dB (typical) | | | |
| Closed channel capacitance: | | | | |
| Ch-to-ch: | 25 pF (typical) | | | |
| Ch-to-com: | 60 pF (typical) | | | |

General Characteristics

| Typical relay life (number of operations): | |
|---|--------------|
| No load: | 5x10E7 |
| Rated load: | 3.5x10E4 |
| Time to close or open a channel (register programming): | 16 msec |
| Connector type, wire size: | 10 11300 |
| Standard: | — |
| Screw: | n/a |
| Power up/down states: | Non-latching |

DC

M-Module Characteristics

Output connector type: Standard compliance: Accessory: 44-pin D-Sub (female) IDENT, A08, D16, INTC 44-pin D-Sub (male) with plastic housing

General Specifications

VXI Characteristics

| VXI device type: | Register based |
|----------------------|-----------------|
| Data Transfer Bus: | n/a |
| Size: | n/a |
| Slots: | n/a |
| Connectors: | n/a |
| Shared memory: | n/a |
| VXI busses: | n/a |
| C-size compatibilty: | Yes with E2251A |
| C-size compatibilty: | Yes with E2251A |

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-SCPI LynxOS: | No |
| C-SCPI Series 700: | No |
| Panel Drivers: | No |
| VXI <i>plug&play</i> Win | |
| Framework: | No |
| VXI <i>plug&play</i> Win 95/NT | |
| Framework: | Yes |
| VXI <i>plug&play</i> HP-UX | |
| Framework: | No |
| | |

Module Current

| | I _{PM} (A) | I _{DM} (A) | |
|---------|---------------------|---------------------|--|
| +5 V: | 0.020 A | 0.010 A | |
| +12 V: | 0.090 A | 0.09 A | |
| –12 V: | 0 | 0 | |
| +24 V: | 0 | 0 | |
| –24 V: | 0 | 0 | |
| -5.2 V: | 0 | 0 | |
| –2 V: | 0 | 0 | |

Ordering Information

| Description | Product No. |
|----------------------------------|-------------|
| 4-Ch Form C Power Relay M-Module | E2274A |

Related Literature

2000 Test System and VXI Catalog CD-ROM, Agilent Pub. No. 5980-0308E (detailed specifications for VXI products)

2000 Test System and VXI Catalog, Agilent Pub. No. 5980-0307E (overview of VXI products)

1998 Test System and VXI Products Data Book, Agilent Pub. No. 5966-2812E

Online

Internet access for Agilent product information, services and support www.agilent.com/find/tmdir

VXI product information www.agilent.com/find/vxi

Defense Electronics Applications www.agilent.com/find/defense ATE

Agilent Technologies VXI Channel Partners www.agilent.com/find/vxichanpart

Agilent Technologies' HP VEE Application Website www.agilent.com/find/vee

Agilent Technologies Data Acquisition and Control Website www.agilent.com/find/data acq

Agilent Technologies Instrument Driver Downloads www.agilent.com/find/inst_drivers

Agilent Technologies Electronics Manufacturing Test Solutions www.agilent.com/go/manufacturing

Get assistance with all your test and measurement needs at www.agilent.com/find/assist

or check your local phone book for the Agilent office near you.

Agilent Technologies' test and measurement service/support commitment

Agilent strives to maximize the value our test and measurement products give you, while minimizing your risk and service/support problems. We work to ensure that each product is realistically described in the literature, meets its stated performance and functionality, has a clearly stated global warranty, and is supported at least five years beyond its production life. Our extensive self-help tools include many online resources (www.agilent.com).

Experienced Agilent test engineers throughout the world offer practical recommendations for product evaluation and selection. After you purchase an Agilent product, they can provide no-charge assistance with operation verification and basic measurement setups for advertised capabilities. To enhance the features, performance, and flexibility of your test and measurement products—and to help you solve application challenges—Agilent offers free or extra-cost product options and upgrades, and sell expert engineering, calibration, and other consulting services.

Phone or Fax

United States: (tel) 1 800 829 4444

Canada: (tel) 1 877 894 4414 (fax) (905) 282 6495

China: (tel) 800 810 0189 (fax) 800 820 2816

Europe: (tel) (31 20) 547 2323 (fax) (31 20) 547 2390

Japan: (tel) (81) 426 56 7832 (fax) (81) 426 56 7840

Korea: (tol) (82 2) 2004 |

(tel) (82 2) 2004 5004 (fax) (82 2) 2004 5115

Latin America: (tel) (305) 269 7500 (fax) (305) 269 7599

Taiwan: (tel) 0800 047 866 (fax) 0800 286 331

Other Asia Pacific Countries: (tel) (65) 6375 8100 (fax) (65) 6836 0252

(e-mail) tm_asia@agilent.com

Data Subject to Change © Agilent Technologies, Inc. 2000 Printed in the U.S.A. May 1, 2004 5965-8817E

