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Agilent E8480A
40-Channel, High-Power, General Purpose Switch

Data Sheet

- 1-Slot, C-size, register based
- Ideal for switching ac or dc power
- Up to 12 amps per channel
- Non-latching relays
- Normally open terminals



Agilent E8480A

Description

The Agilent Technologies E8480A 40-Channel, High-Power, General Purpose Switch is a **C-size, 1-slot, register-based VXI module.** It is capable of switching up to 12 amps of current on a single channel for power-switching applications. These applications include process control, appliance pass/fail testing, environmental testing and on/off control, among many others.

There are two 30-pin male connectors and one 24-pin male connector on the front panel of the E8480A. The E8480A Option 105 provides two 30-pin mating female connectors, and Option 106 provides one 24-pin mating female connector. Both options include the female connector(s) and crimp contacts which are inserted into the connector bodies. The crimp contacts support up to 12 AWG (4.0 sq. mm) wire.

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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Product Specifications

Number of Channels:	40
Form:	A (SPST)

Input

Maximum voltage:	
DC:	150 V
AC rms:	280 V
Maximum transient impulse:	
Vpk:	2,500 V
Maximum current (noninductive, per switch):	
DC:	12 A @ 30 V 3.5 A @ 40 V 0.3 A @ 150 V
AC:	12 A
Maximum power:	
DC (per switch):	360 W
AC (per switch):	3,360 VA
DC (per module):	2,160 W
AC (per module):	20,160 VA

DC

Maximum thermal offset:	10 µV
Initial closed channel resistance:	100 mΩ typical
Insulation resistance (between any two points):	
≤40 °C, ≤95% RH:	n/a
≤40 °C, ≤65% RH:	>10E8 Ω
≤25 °C, ≤40% RH:	>10E9 Ω

AC

Typical bandwidth (-3 dB):	10 MHz
Crosstalk (dB, channel-to-channel):	
<10 kHz:	<-65 dB
<100 KHz:	<-45 dB
<1 MHz:	n/a
<10 MHz:	n/a
Closed-channel capacitance:	
Hi to Lo (channel open):	<200 pF
Ch-to-ch:	<200 pF
Ch-to-chassis:	<200 pF

General

Typical relay life (number of operations):	
No load:	10E7
At rated load*:	10E5
Time to close or open a channel:	15 ms

**Note: Minimum load 5 Vdc, 0.1 A per channel*

General Specifications

VXI Characteristics

VXI device type:	Register based, A16, Slave only
Size:	C
Slots:	1
Connectors:	P1/P2
Shared memory:	None
VXI buses:	None

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.11.01
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* Win95/NT Framework:	Yes
VXI*plug&play* HP-UX Framework:	No

Cooling/Slot

Watts/slot:	86
∆P mm H_2O:	0.70
Air flow liter/s:	6.9

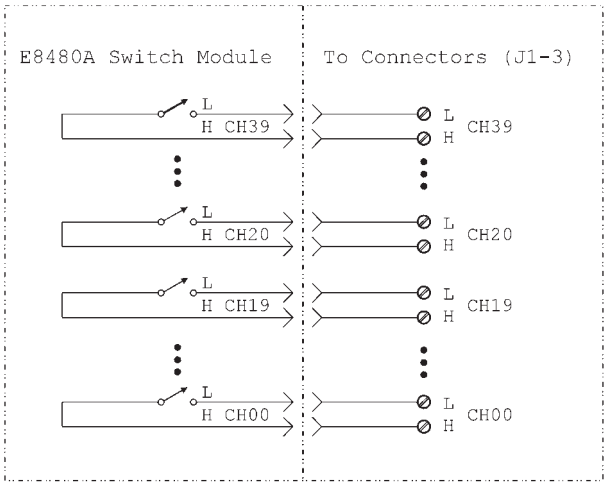
Module Current

	I_{PM} (A)	I_{DM} (A)
+5 V:	3.5	0.1
+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

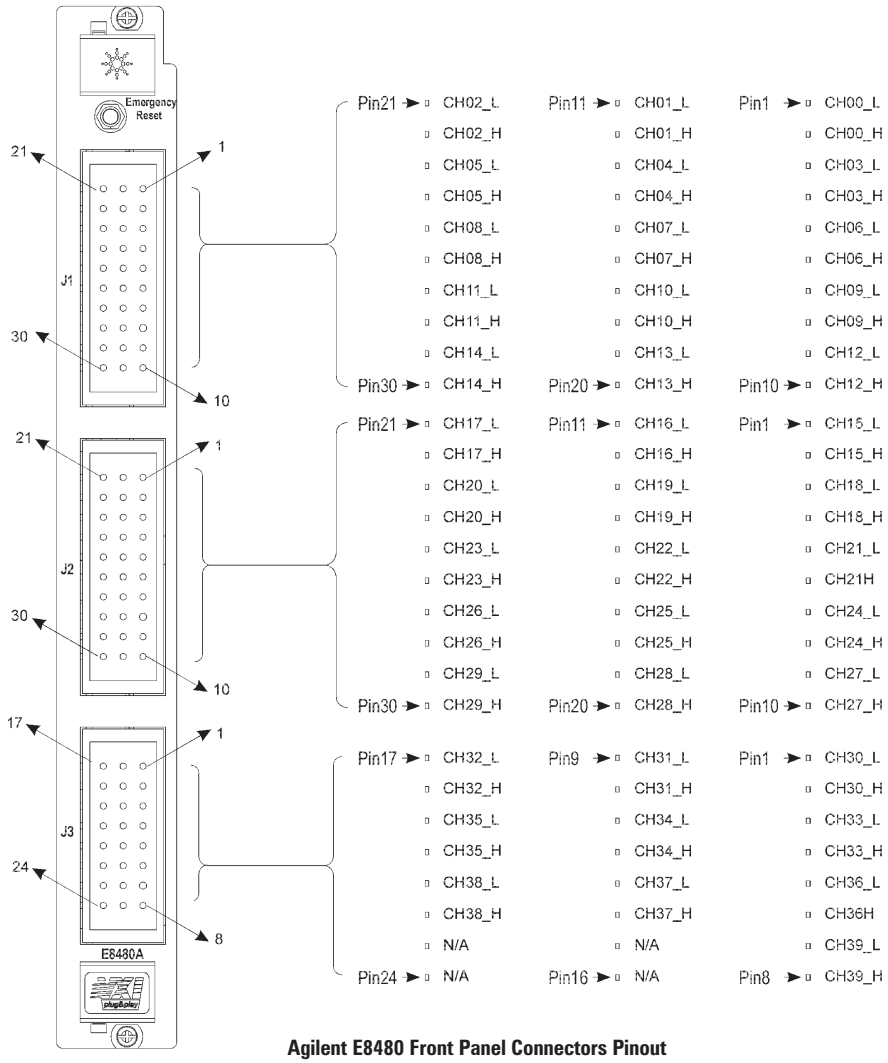
Ordering Information

Description	Product No.
40-Channel, High-Power, General Purpose Switch	E8480A
Two 30-pin Female Mating Connectors	E8480A 105
One 24-pin Female Mating Connector	E8480A 106

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Agilent E8480A Circuit Diagram



Agilent E8480 Front Panel Connectors Pinout

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