

Keysight Technologies

E8782A Pin Matrix and E8783A Pin Matrix Card

Data Sheet

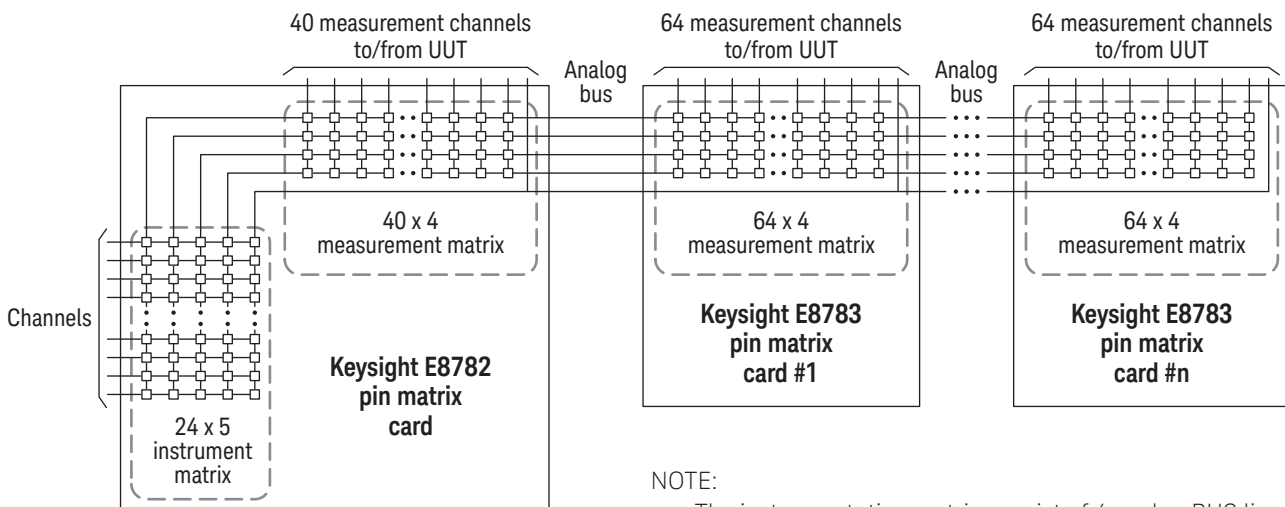
The Keysight Technologies, Inc. E8782A pin matrix with instrumentation and E8783A pin matrix card are new additions that double the number of supported channels offered by the previous E8792A and E8793A matrix cards. With this increase in supported channels, customers can now support tests on units with a higher number of pin counts using the E6198A switch/load unit.

Effectively, the E8782A pin matrix with instrumentation is configured with 24 instrument channels and 40 measurement channels and retains the features included with the older E8792A card.

The E8783A pin matrix card doubles the number of channels on the E8793A card and retains all features, including the switched auxiliary I/O channels for each row. These auxiliary channels are commonly used for digital I/O operations or other user-defined applications.

Both the E8782A and E8783A are compatible for use with existing E8792A and E8793A cards. Their architecture retains the same analog bus design which allows customers to easily cascade several cards in the E6198A switch/load unit.

E8782A and E8783A conceptual overview



NOTE:

- The instrumentation matrix consist of 4 analog BUS lines and a 5th UUT common line, hence 24 x 5
- The auxiliary channels are not shown in this conceptual overview
- Cascading of cards to E8792A and E8793A are similar, using the analog bus

E8782A and E8783A specifications

General specifications		
Parameter	Specification	
Power requirement	Voltage: +5 Vdc	
Capacitance – DUT pin to UUT common	Open channel: 100 pF Closed channel: 300 pF	
Channels	E8782A	E8783A
	40 measurement 24 instrument	64 measurement
Resistance	DUT pin to auxiliary input: 1 ohm (maximum) DUT pin to analog bus connector: 1 ohm* (maximum) * with 100 ohm protection resistor bypassed	
Pin channel voltage	200 volts	
Number of concurrent analog channels	4	
Operating temperature	0 to 40 °C	
Operating humidity	80% relative humidity, 0 to 40 °C	
Maximum current consumption	3 A at 5 V	

Relay characteristics		
Parameter	Specification	
Type	Dry reed	
Switching speed	Close: 500 ms	
	Open: 400 ms	
Switching characteristics	1.0 A carry	
	0.5 A while switching	
	7.5 volt-amps maximum instantaneous switching	
Other relay parameters	300 VDC standoff voltage	
	200 VDC switching voltage	

For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at: www.keysight.com/find/contactus

Americas

Canada	(877) 894 4414
Brazil	55 11 3351 7010
Mexico	001 800 254 2440
United States	(800) 829 4444

Asia Pacific

Australia	1 800 629 485
China	800 810 0189
Hong Kong	800 938 693
India	1 800 112 929
Japan	0120 (421) 345
Korea	080 769 0800
Malaysia	1 800 888 848
Singapore	1 800 375 8100
Taiwan	0800 047 866
Other AP Countries	(65) 6375 8100

Europe & Middle East

Austria	0800 001122
Belgium	0800 58580
Finland	0800 523252
France	0805 980333
Germany	0800 6270999
Ireland	1800 832700
Israel	1 809 343051
Italy	800 599100
Luxembourg	+32 800 58580
Netherlands	0800 0233200
Russia	8800 5009286
Spain	0800 000154
Sweden	0200 882255
Switzerland	0800 805353
	Opt. 1 (DE)
	Opt. 2 (FR)
	Opt. 3 (IT)
United Kingdom	0800 0260637

For other unlisted countries:
www.keysight.com/find/contactus
(BP-07-10-14)



myKeysight

www.keysight.com/find/mykeysight

A personalized view into the information most relevant to you.

Keysight Channel Partners

www.keysight.com/find/channelpartners

Get the best of both worlds: Keysight's measurement expertise and product breadth, combined with channel partner convenience.

www.keysight.com/find/automotive

www.keysight.com/find/gptest



This information is subject to change without notice.
© Keysight Technologies, 2010 - 2014
Published in USA, July 31, 2014
5990-5256EN
www.keysight.com