Keysight Technologies PXI Multiplexer Switch Modules

Product Fact Sheet

Industries and Applications

- Aerospace/defense
- Medical
- Automotive
- Electronic test
- Semiconductor

Product Description

The PXI multiplexer modules deliver high-speed signal routing of many different channels to a single point, and are ideal for routing multiple analog signals to a measurement device in Automated Test nvironments (ATE) or data acquisition systems.

Models	
M9101A	64-ch, 2-wire, reed relays
M9102A	128-ch, 1-wire, reed relays
M9103A	99-ch, 2-wire, armature relays

Main Features and Benefits

Product features	Your benefit
High-speed, long-life reed relays or higher power EM relays	Get the performance you need with 500 usec switches or up to 60W per channel
Modules operate in break-before-make mode	Ensure no two points are connected at the same time
Up to 128 channels in a single module	Scan many points in a compact space
Software drivers support the most common programming environments	Work in your environment of choice and reduce development time
Optional connector block, soft front panels, and Keysight Connection Expert	Fast and easy installation and configuration



Specifications and Characteristics

Hardware			
	M9101A	M9102A	M9103A
Channels	64	128	99
Switch type	2-wire, reed	1-wire, reed	2-wire, armature
Max volts (CAT 1) (typ)	100 Vrms		
Max current switch/carry	0.5A/1.0A	0.5A/1.0A	1A
Max power (nom)	10 W	10 W	60 W
Bandwidth (nom)	5 MHz	5 MHz	1 MHz
Connectors	200 LFH		

Chassis slot compatibility: cPCI (J1), PXI-1, PXIe Hybrid



Software Information

Operating systems	Microsoft Windows XP Microsoft Windows Vista (32/64-bit) Microsoft Windows 7 (32/64-bit)
Standard compliant drivers	IVI-COM, IVI-C, LabVIEW, MATLAB
Supported Application Development Environ- ments (ADE)	VisualStudio (C/C++, C#, VB.NET), LabVIEW, LabWindows/CVI, MATLAB, VEE
Keysight IO Libraries	Includes: VISA Libraries, Keysight Connection Expert, IO Monitor

ty Rools Help							
ensity Multiplexer	128-ch. 1-Wr	e, 100VDC/1A,	Reed Relays				
1.5	122	1	100	1251	100	12	12
							- o chtt3
							- o chiti
							- o chits
							o chitê
o ch5	o cfQ1	o ch37	0 Ett63	o ch69	- o ch85	- o ch101	- o chit?
o ch6	- o ch22	o ch38	0 ch64	o ch70		- o ch102	Biths or w
o ch7	o ch23	- o ch39	0 ET65	- o ch71	0 1187	e e o cirtal	o cht19
o chit	o sh24	- o ch40	o ct66	o ch72	ch63	- o ch104	o ch120
o chi?		o ch41		o ch73	chep	- o ch105	o sht21
o chili		o ch42	et68	o ch74		-> 0 ch108	o ch122
0 ch11		o ch43		- o ch75		0 ch107	- o ch123
o ch12	sh28	0 ch44	0013 0-0	- 0 ch76			- o ch124
(h13	2011 0-01		10 10 1101		2011 0	- en ch109	o cht25
- o dita	- o ch30	chi46		- o ch78		0 ch110	- o ch126
							- o sh127
	o shi22	o cn48	cti64	- 0 ch88	- o chie		0 ch128
	ensity Multiplexer	aready Multiplesser: 128.ch, 1.We	analy Multiplexer: 128-ch; 1-Wire; 100VDC/IA;	ansity Multiplexer: 128-ch, 1-Wire, 100VDC/1A, Reed Relays	Instart Image: Sec: 128-ch, 1-Wire, 100VDC/1A, Reed Relays: Image: Sec: 128-ch, 1-Wire, 100VDC/1A, Reed Relays: Image: Sec: 128-ch, 1-Wire, 100VDC/1A, Reed Relays: Image: Sec: 128-ch, 1-Wire, 100VDC/1A, Reed Relays: Image: Sec: 128-ch, 1-Wire, 100VDC/1A, Reed Relays: Image: Sec: 128-ch, 1-Wire, 100VDC/1A, Reed Relays: Image: Sec: 128-ch, 1-Wire, 100VDC/1A, Reed Relays: Image: Sec: 128-ch, 1-Wire, 100VDC/1A, 1-0000 Image: Sec: 128-ch, 1-Wire, 100VDC/1A, Reed Relays: Image: Sec: 128-ch, 1-Wire, 100VDC/1A, 1-0000 Image: Sec: 128-ch, 1-Wire, 100VDC/1A, 1-0000 Image: Sec: 128-ch, 1-Wire, 100VDC/1A, 1-0000 Image: Sec: 128-ch, 1-Wire, 100VDC/1A, 1-0000 Image: Sec: 128-ch, 1-Wire, 120VDC/1A, 1-0000 Image: Sec: 128-ch, 1-Wire, 100VDC/1A, 1-0000 Image: Sec: 128-ch, 1-Wire, 120VDC/1A, 1-0000 Image: Sec: 128-ch, 1-0000 Image: Sec: 128-ch, 1-Wire, 120VDC/1A, 1-0000 Image: Sec: 128-ch, 1-0000 Image: Sec: 128-ch, 1-0000 Image: Sec: 128-ch, 1-0000 Image: Sec: 128-ch, 1-00000 Image: Sec: 128-ch, 1-0000 Image: Sec: 128-ch, 1-00000 Image: Sec: 128-ch, 1-000000 Image: Sec: 128-ch, 1-000000 Image: Sec: 128-ch, 1-0000000 Image: Sec: 128-ch, 1-0000000 Image: Sec: 128-ch, 1-00000000 Image: Sec: 128-ch, 1-0000000000000000000000000000	ansatz	ansaty Multiplexer: 128-ch, 1-Wire, 100VDC/1A, Reed Relays image: image:

Figure 1. Soft front panel



Model	Description
M9101A	PXI high-density multiplexer: 64-ch, 2-wire, 100V/1.0A, reed relays
M9102A	PXI high-density multiplexer: 128-ch, 1-wire, 100Vrms/1.0A, reed relays
M9103A	PXI high-density multiplexer: 99-ch, 2-wire, 100Vrms/1A, armature relays
Deleted products	
Related products	
M9018A	18-slot PXIe chassis
M9021A	PCIe [®] cable interface
M9132A	50-ch SPST general purpose switch
M9187A	32-ch digital I/O
Accessories	
Y1182A	PXI connector block: 200-pin, shielded, male (recommended)
Y1189A	PXI connector cable: 200-pin, LFH male to four 50 pin Dtype female connectors, 1Meter
Y1190A	PXI connector cable: 200-pin, LFH male to four 50 pin Dtype female connectors, 2Meter

Advantage Services: Warranty

Keysight Advantage Services is committed to your success throughout your equipment's lifetime.

R-51B-001-3C	1-year, return-to-Keysight warranty
	extended to 3 years

PICMG and the PICMG logo, CompactPCI and the CompactPCI logo, "PCIe", and "PCI EXPRESS" are registered trademarks and/or service marks of PC-SIG.

Keysight Modular Products

www.keysight.com

www.keysight.com/find/modular www.keysight.com/find/pxi-switch USA: (800) 829-4444

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

This information is subject to change without notice. © Keysight Technologies, 2013 - 2014 Published in USA, August 3, 2014 5990-6356EN www.keysight.com



Figure 2. PXI connector block

