Keysight Technologies
PXI Multiplexer Switch Modules

Product Fact Sheet

Industries and Applications

– Aerospace/defense
– Automotive
– Electronic test
– Medical
– 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

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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 Environments (ADE)	VisualStudio (C/C++, C#, VB.NET), LabVIEW, LabWindows/CVI, MATLAB, VEE
Keysight IO Libraries	Includes: VISA Libraries, Keysight Connection Expert, IO Monitor
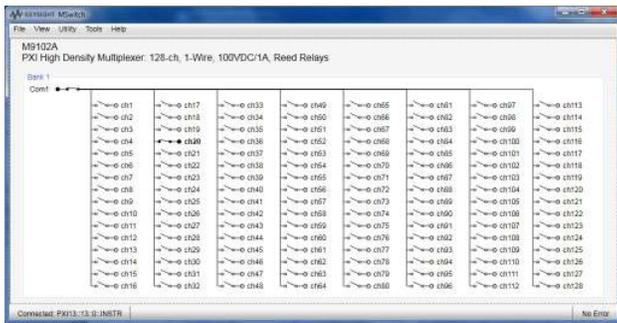
Figure 1. Soft front panel

Figure 2. PXI connector block

Ordering Information

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

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

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