

Keysight Technologies

PXI Matrix Switch Models

Product Fact Sheet

Industries and Applications

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

Product Description

The PXI matrix switch modules deliver medium- to high-density switching of multiple channels in a single instance. Any row can be connected to any column—ideal for routing multiple signals between the device under test and instruments.

Models	
M9120A	4x32, 2-wire, armature relays
M9121A	4x64, 2-wire, reed relays
M9122A	8x32, 1-wire, armature relays

Main Features and Benefits

Product features	Your benefit
Up to 256 1-wire crosspoints	Connect multiple points for high-pin-count applications
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	M9120A	M9121A	M9122A
Channels	4x32	4x64	8x32
Switch type	2-wire, armature	2-wire, reed	1-wire, armature
Max volts (CAT 1)	100 Vrms	100 Vrms	100 Vrms
Max current switch/carry	2.0 A	0.5 A	2.0 A
Max power (nom)	60 W	10 W	60 W
Bandwidth (nom)	7.5 MHz	10 MHz	5 MHz
Connectors	78 Dsub block/cable	200 LFH block/ cable	50 Dsub block/cable

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 Environments (ADE)	Visual Studio (C/C++, C#, VB.NET), LabVIEW, LabWindows/CVI, MATLAB, VEE
Keysight IO Libraries	Includes: VISA Libraries, Keysight Connection Expert, IO Monitor

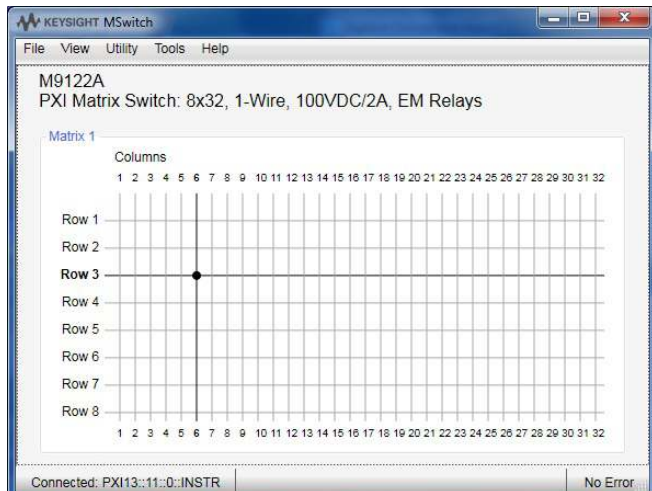


Figure 1. Soft front panel.



Figure 2. PXI connector block.

Keysight Services: Warranty

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

Standard	Return to Keysight warranty - 3 years
----------	---------------------------------------

Ordering Information

Model	Description
M9120A	PXI matrix switch: 4x32, 2-wire, 100 V/2 A armature relays
M9121A	PXI matrix switch: 4x64, 2-wire, 100 V/0.5 A, reed relays
M9122A	PXI matrix switch: 8x32, 1-wire, 100 V/2 A armature relays

Related products

M9018A	18-slot PXIe chassis
M9021A	PCIe® cable interface
M9102A	128-ch, 1-wire multiplexer switch
M9131A	64-ch SPDT general purpose switch
M9187A	32-ch digital I/O

Accessories

M9120A	
Y1181A	PXI connector block: 78-pin, shielded, female DSub (recommended)
Y1187A	PXI connector cable: 78-pin, male-to-female, 1Meter
Y1188A	PXI connector cable: 78-pin, male-to-female, 2Meter
M9121A	
Y1182A	PXI connector block: 200-pin, shielded, male
Y1189A	PXI connector cable: 200-pin, LFH male to four 50 pin Dtype female connectors, 1 meter
Y1190A	PXI connector cable: 200-pin, LFH male to four 50 pin Dtype female connectors, 2 meter
M9122A	
Y1180A	PXI connector block: 50-pin female DSub (recommended)
Y1185A	PXI connector cable: 50-pin, male-to-female, 1Meter
Y1186A	PXI connector cable: 50-pin, male-to-female, 2Meter

PCIe® is a registered U.S. trademark and/or service mark of PCI-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