Agilent PXI Matrix Switch Models

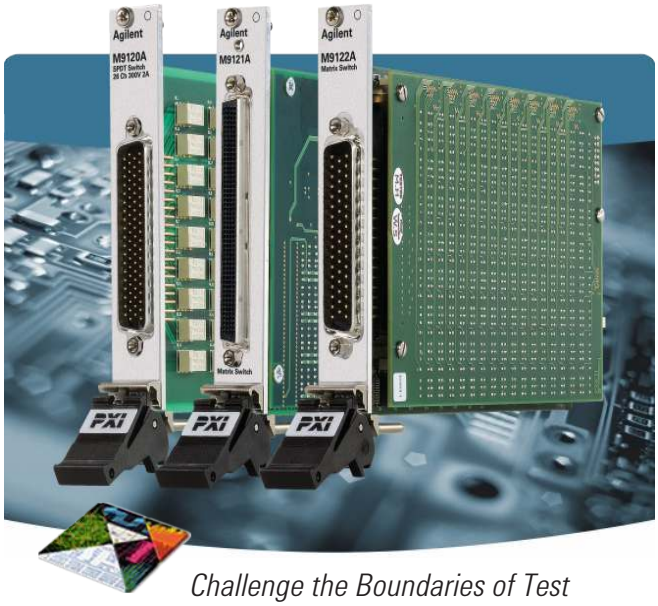
Industries and Applications

- Aerospace and 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



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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 Agilent 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
Agilent IO Libraries	Includes: VISA Libraries, Agilent Connection Expert, IO Monitor

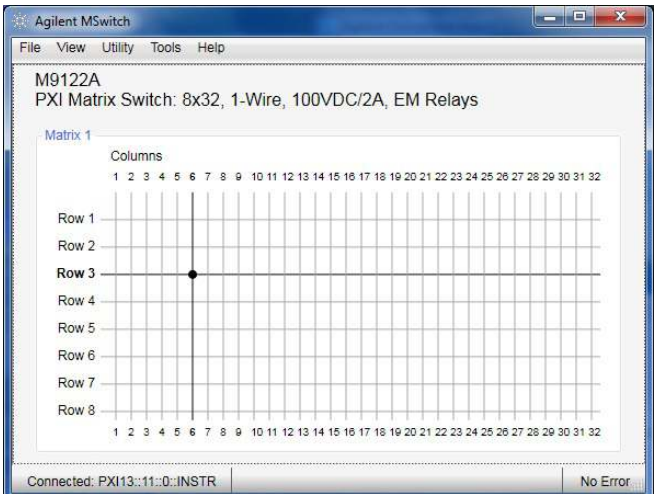

Figure 1. Soft front panel.

Figure 2. PXI connector block.

Agilent Services: Warranty	
Agilent Advantage Services is commited to your success throughout your equipment's lifetime	
Standard	Return to Agilent warranty - 3 years

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

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

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

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