Agilent General Purpose Switch Modules

Industries and Applications

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

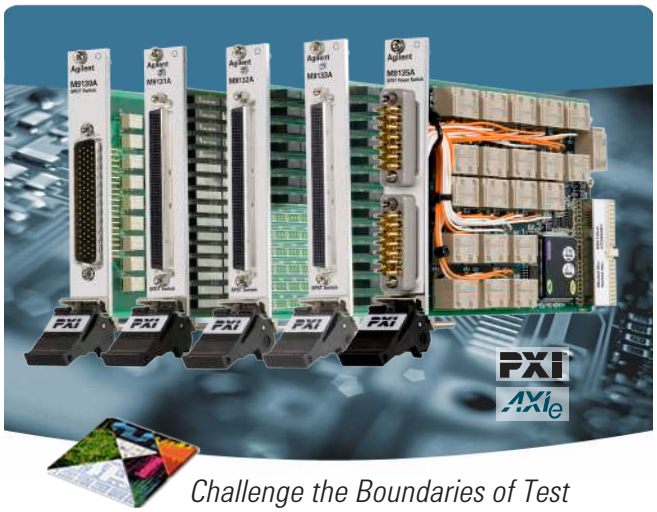
Product Description

The PXI general purpose switch modules deliver fast, reliable switching in a variety of configurations. Cycle power to products under test, control indicator, and status lights, or actuate external power relays and solenoids with independent, single-pole, double-throw (Form C) or singlepole, single-throw (Form A) switches in a single PXI module. The line also includes a module that can handle up to 300W/1250W for switching heavy loads or power supplies.

Models	
M9130A	26-ch, SPDT, armature relays
M9131A	64-ch, SPDT, reed relays
M9132A	50-ch, SPST, reed relays
M9133A	100-ch, SPST, reed relays
M9135A	20-ch, SPST, 5A, 300W

Main Features and Benefits

Product features	Your benefit
Up to 100-channel general purpose EM relays	High-density, general purpose switching in a compact module
Power relay module	Get the performance you need to switch heavy loads with up to 300W (DC resistive load)/1250W (AC resistive load)
Software drivers support common programming environments	Work in your environment of choice, reduce development time
Optional connector block, soft front panels, and Agilent Connection Expert	Fast and easy installation and configuration
Automatic notification of updates.	Be confident that you are using the latest version of the software



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Agilent Modular Products

Specifications and Characteristics

Hardware			
Modules	Max volts (CAT 1)	Max current switch/carry	Max power *(nom)*
M9130A 26-ch SPDT, Form C, armature	250 Vrms	2A/2A	60 W
M9131A 64-ch SPDT, Form C, reed	100 Vrms	0.25A/1A	3 W
M9132A 50-ch SPST, Form A, reed	100 Vrms	1A/1A	25 W
M9133A 100-ch SPST, Form A, reed	100 Vrms	1A/1A	25 W
M9135A 20-ch SPST, Form A, armature	250 Vrms/ 125Vdc	5A/5A	300 W
Chassis slot compatibility: cPCI (J1), PXI-1, PXIe Hybrid			

Ordering Information

Model	Description
M9130A	PXI SPDT switch: 26-ch, 2A, armature relays
M9131A	PXI SPDT switch: 64-ch, 100 Vrms/1A, reed relays
M9132A	PXI SPST switch: 50-ch, 100 Vrms/1A, reed relays
M9133A	PXI SPST switch: 100-ch, 100 Vrms/1A, reed relays
M9135A	PXI SPST power relay: 20-ch, 5A, 300 W
Related products	
M9018A	18-slot PXIe chassis
M9021A	PCIe® cable interface
M9120A	4x32, 2-wire matrix switch
M9101A	64-ch, 2-wire multiplexer switch
M9187A	32-ch digital I/O
Accessories	
M9130A	
Y1181A	PXI connector block: 78-pin, shielded, female DSub (recommended)
Y1187A	PXI connector cable: 78-pin, male-to-female, 1 Meter
Y1188A	PXI connector cable: 78-pin, male-to-female, 2 Meter
M9131A-M9133A	
Y1182A	PXI connector block: 200-pin, shielded, male (recommended)
Y1189A	PXI connector cable: 200-pin, LFH male to four 50 pin female Dtype connectors, 1 Meter
Y1190A	PXI connector cable: 200-pin, LFH male to four 50 pin female Dtype connectors, 2 Meter
M9135A	
Y1191A	PXI power cable: 20-pin, female-to-unterminated, 1 Meter
Y1192A	PXI power cable: 20-pin, female-to-unterminated, 2 Meter
Y1193A	PXI power connector: 20-pin, female (universal), solder pin (recommended)

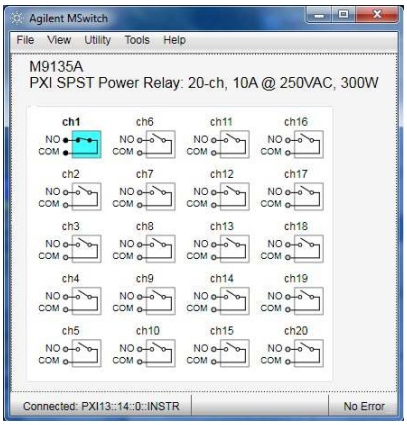

Figure 1. Soft front panel.

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

Figure 2. PXI connector block.

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