M9360A PXI Attenuator/Preselector

Industries and applications

- Aerospace and defense
- Wireless communications
- Radar and wideband signal capture

Product description

With attributes that provide enough performance to satisfy even the most demanding spectrum analysis applications, the M9360A PXI Attenuator/Preselector is a 3-slot 3U, combination module providing attenuation and preselection signal conditioning for numerous system applications with an electronically tuneable, 4-stage, YIG-tuned filter based RF-input pre-selector, and broadband switches for signal distribution.

Main features and benefits

Product features	Your benefit
Frequency range	100 kHz to 26.5 GHz
Bypass path	Automatically route signals around the band limited preselector for additional bandwidth
35 MHz to 120 MHz bandwidth (preselected, < 3 GHz)	Allows you to analyze large bandwidth signals
40 MHz to 120 MHz bandwidth (preselected, ≥ 3 GHz)	
70 dB input step attenuator	Increased dynamic range
Multiple programmatic interfaces	Easy integration into existing test environments and reduced development time
PXI form-factor	Conforms to Modular Open Systems Approach (MOSA)

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

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Specifications and characteristics

Hardware		
Size	3 slot 3U	
Tuning speed	< 5 ms @ 50 MHz step, *(nominal)*	
Maximum power	RF IN: +30 dBm	
	LO IN: +20 dBm	
3 dB bandwidth	35 MHz min, 120 MHz max (preselected, < 3 GHz)	
	40 MHz min, 120 MHz max (preselected, ≥ 3 GHz)	
Attenuator	0 dB to 70 dB in 10 dB steps	
Switches	SP2T mechanical type	

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Software information

The M9360A PXI Attenuator/Preselector is supplied with a comprehensive portfolio of module drivers, documentation, examples, and software tools to help you quickly develop test systems with your software platform of choice.

A soft front panel interface is provided to monitor and control the PXI Downconverter with the following functions:

- Setting input frequency and level

- Enable/Disable Preselector

- Setting attenuator level

- Setting RF/LO Out: low-band/high-band

- Setting preselector frequency

- Monitoring hardware status

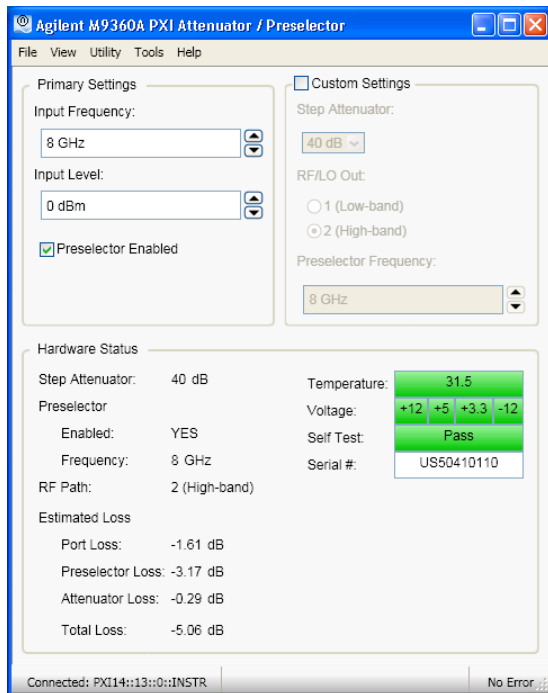|	
Supported operating systems	Microsoft Windows XP (32-bit), Microsoft Windows Vista (32/64-bit), Microsoft Windows 7 (32/64-bit)
Standard compliant drivers	IVI-COM, IVI-C, LabVIEW, MATLAB
Supported application development environments (ADE)	Visual Studio (VB.NET, C#, C/C++), VEE, LabVIEW, LabWindows/CVI, MATLAB
Agilent IO Libraries	Includes: VISA Libraries, Agilent Connection Expert, IO Monitor

Figure 1. Agilent M9360A PXI Attenuator/Preselector, software interface.
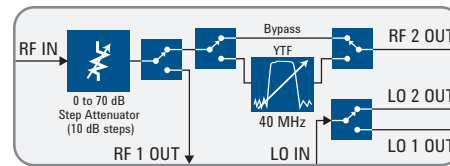
M9360A Attenuator/Preselector

Figure 2. Simplifed block diagram of the M9360A PXI Attenuator/Preselector.

Ordering information

Model	Description
M9360A	PXI Attenuator/Preselector: 100 kHz to 26.5 GHz
Related products	
M9202A	PXIe IF Digitizer: 12-bit, 2 GS/s
M9302A	PXI Local Oscillator: 3 GHz to 10 GHz
M9361A	PXI Downconverter: 2.75 MHz to 26.5 GHz
M9351A	PXI Downconverter: 50 MHz to 2.9 GHz
M9392A	PXI Vector Signal Analyzer: 50 MHz to 26.5 GHz
M9018A	PXIe 18-slot Chassis
M9036A	PXIe Embedded Controller
Accessories	
Software, example programs, and product information on CD	
Cables	

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