M9361A PXI Downconverter

Industries and applications

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

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.

Main features and benefits

Product features	Your benefit
Frequency range	2.75 GHz to 26.5 GHz
250 MHz bandwidth	Able to capture wide bandwidth signals
Built-in pre-amp	Able to acquire low-level signals
40 dB solid state IF attenuator with 0.5 dB steps	Fast IF power control
Auxiliary input/switch for signal routing	Effectively gives you the option to route signals directly from other downconverters to a digitizer without external switching
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
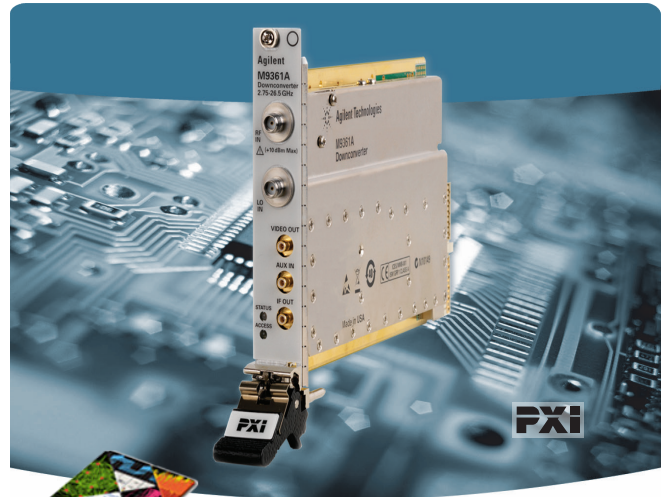
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Agilent Modular Products

Specifications and characteristics

Hardware	
Size	1 slot 3U
Frequency range	2.75 GHz to 26.5 GHz
Operating range	< 9.5 GHz: -160 dBm to -30 dBm, *(nominal)*
	9.5 GHz to 26.5 GHz: -146 dBm to -30 dBm, *(nominal)*
Bandwidth (3 dB)	250 MHz, min
Impedance	50 Ω, *(nominal)*
RF to IF Gain	38 dB, *(nominal)*
Center frequency (user adjustable)	500 MHz, *(nominal)*
Residuals, RF and LO input terminated	-75 dBm
LO input frequency range	3 GHz to 10 GHz
LO input power	+15 dBm ± 2 dB
Impedance	50 Ω, *(nominal)*

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Software information

The M9361A PXI Downconverter 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

• IF Path selection: Normal/AUX IN

• Setting attenuator levels

• 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
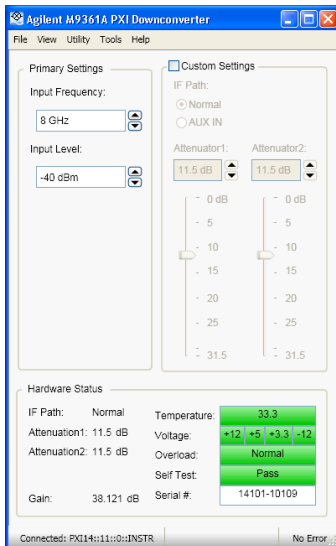
Figure 1. Agilent M9361A PXI Downconverter, software interface.
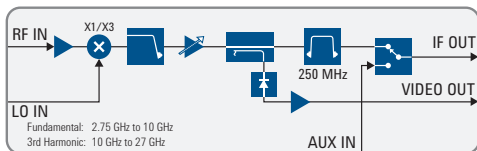
M9361A Downconverter (2.75 GHz to 26.5 GHz)

Figure 2. Simplifed block diagram of the M9361A PXI Downconverter.

Ordering information

Model	Description
M9361A	PXI Downconverter: 2.75 GHz to 26.5 GHz
Related products	
M9302A	PXI Local Oscillator: 3 GHz to 10 GHz
M9202A	PXIe IF Digitizer: 12-bit, 2 GS/s
M9360A	PXI Attenuator/Preselector: 100 kHz 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	
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

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3 WARRANTY **Three-Year Warranty**
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