



M9351A PXI Downconverter

Industries and applications

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

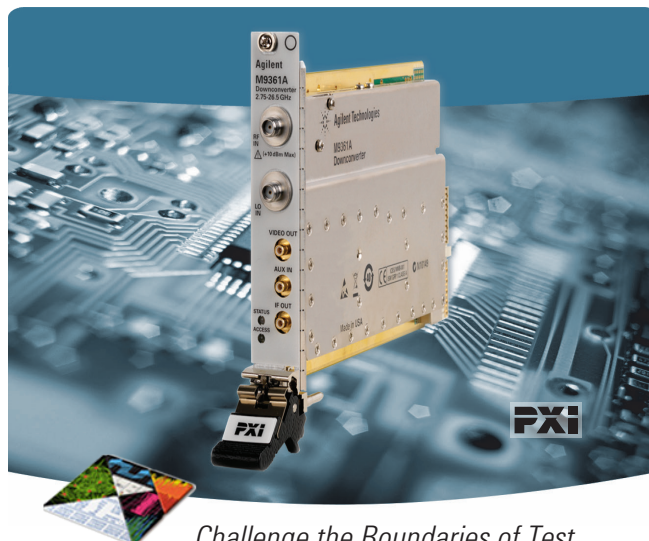
Product description

The Agilent M9351A is a one-slot 3U PXI Downconverter that converts RF signals from 50 MHz to 2.9 GHz into baseband frequency signals for use with Agilent's newest generation of PXI digitizers. The built-in pre-amp enables very low level signal measurements, down to -160 dBm, and the built-in calibration simplifies system power budget calculations.

Main features and benefits

Product features	Your benefit
Frequency range	50 MHz to 2.9 GHz
Built-in pre-amp	Able to acquire low-level signals
Image protected conversion	No need for a preselector
Bypass path	Route specific signals directly to the digitizer
40 dB solid state IF attenuator with 0.5 dB steps	Fast IF power control
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



*Challenge the Boundaries of Test
Agilent Modular Products*

Specifications and characteristics

Hardware	
Size	1 slot 3U
Frequency range	50 MHz to 2.9 GHz 50 MHz to 625 MHz (usable to 1 MHz) (bypass mode)
Operating range	-160 dBm to -30 dBm, (nominal)
Bandwidth (3 dB)	40 MHz, min
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	3.5 GHz to 6.4 GHz
LO input power	+15 dBm $\pm$ 2 dB
Impedance	50 Ω , (nominal)



Software information

The M9351A 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/Bypassed
- 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

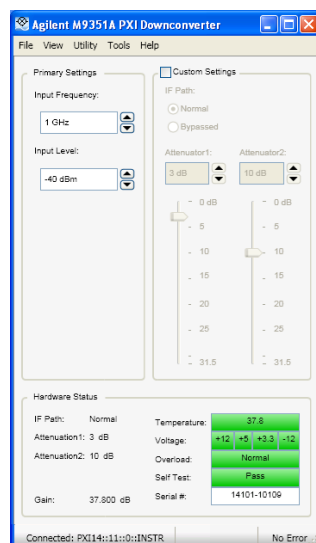


Figure 1. Agilent M9351A PXI downconverter, software interface.

M9351A Downconverter (50 MHz to 2.9 GHz)

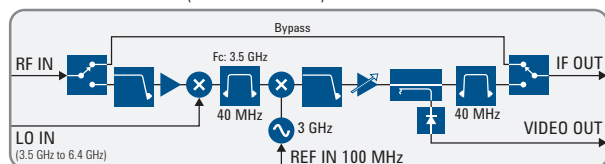


Figure 2. Simplified block diagram of the M9351A PXI Downconverter.

Ordering information

Model	Description
M9351A	PXI Downconverter: 50 MHz to 2.9 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
M9361A	PXI Downconverter: 2.75 MHz to 26.5 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	



Challenge the Boundaries of Test
Agilent Modular Products

www.agilent.com

www.agilent.com/find/modular

www.agilent.com/find/m9351a

USA: (800) 829-4444

PXI

www.pxisa.org



Three-Year Warranty

www.agilent.com/find/ThreeYearWarranty

PICMG and the PICMG logo, CompactPCI and the CompactPCI logo, AdvancedTCA and the AdvancedTCA logo are US registered trademarks of the PCI Industrial Computers Manufacturers Group. "PCIe" and "PCI EXPRESS" are registered trademarks and/or service marks of PCI-SIG.

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

Product specifications and descriptions in this document are subject to change without notice.

© Agilent Technologies, Inc. 2010–2013

Printed in USA, November 21, 2013

5990-6056EN



Agilent Technologies