



Agilent M9351A PXI Downconverter

DISCOVER the Alternatives...

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.

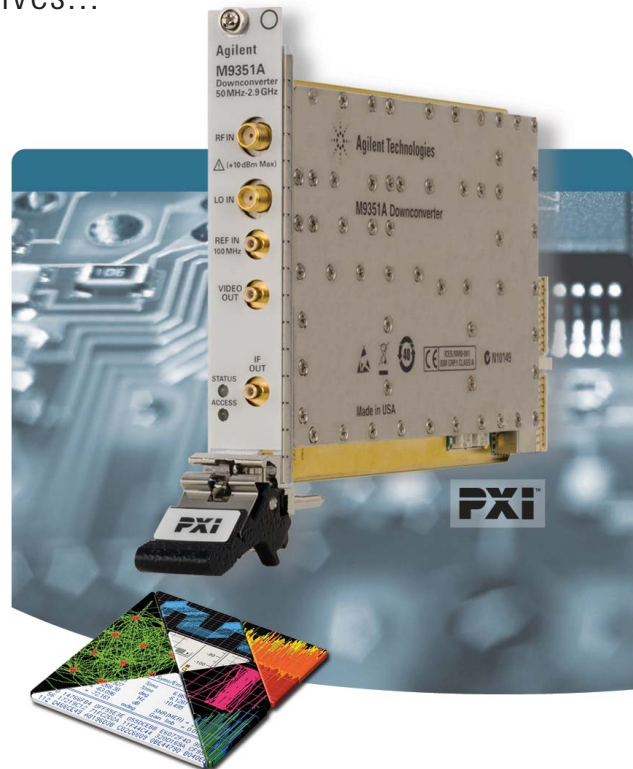
Models

M9351A PXI Downconverter

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, PXI Hybrid



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Specifications

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)



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Software

The M9351A 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)	VisualStudio® (VB.NET, C#, C/C++), VEE, LabVIEW, LabWindows/CVI, MATLAB
Agilent IO libraries	Includes: VISA Libraries, Agilent Connection Expert, IO Monitor

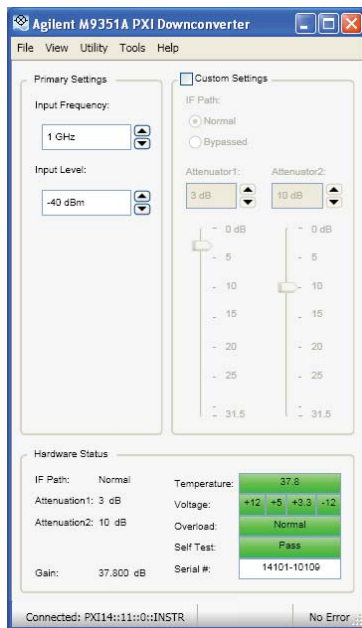


Figure 1. Agilent M9351A PXI downconverter, software interface.

M9351A Downconverter (50 MHz to 2.9 GHz)

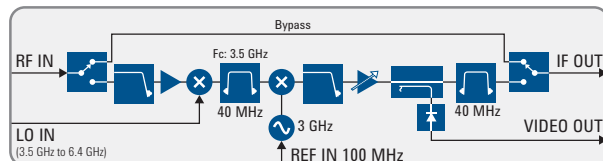


Figure 2. Simplified block diagram of the M9351A PXI Downconverter.

Ordering Information

Typical Product Configuration

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	18-slot PXIe Chassis
M9036A	PXIe Embedded Controller

Accessories

Software, example programs, and product information on CD
Cables

Advantage Services: Calibration and Warranty

Agilent Advantage Services is committed to your success throughout your equipment's lifetime.

R1282A	Annual calibration
R-51B-001-3C	1 year return-to-Agilent warranty extended to 3 years
R-51B-001-5C	1 year return-to-Agilent warranty extended to 5 years

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