

Keysight M9036A

PXIe Embedded PC Controller

Product Fact Sheet

Industries and Applications

- Aerospace/defense
- Communications
- General purpose applications
- Electronic functional test

Product Description

The Keysight Technologies, Inc. M9036A is an embedded PXIe PC controller which enables a compact platform solution. With the 2-link, 2x8 Gen 2 backplane configuration, it is an ideal match for the Keysight M9018A PXIe chassis. This three-slot module easily integrates into hybrid test systems using GPIB, USB, and LAN with the built-in front panel interfaces. Built upon a mid-performance Intel Core i5 dual-core processor with Hyper-Threading Technology, the M9036A is designed for applications in multi-tasking environments.



Main Features and Benefits

Product features	Your benefits
Gen 2 PCIe® backplane switches	Enables high-speed peer-to-peer data transfers between M9018A peripheral slots
Intel Core I5 dual-core processor	Ideal for applications in multi-tasking environments
Preloaded with Keysight I/O libraries and operating system	Reduces test system development time
Designed for PXIe systems	Provides choice between embedded and external controllers
Solid-state drive (SSD)	Improves mechanical reliability

Chassis slot compatibility: PXIe system module slot (with two or more controller expansion slots)

Specifications and Characteristics

Hardware	
Size	3-slot, PXIe system module
CPU	Intel i5-520E dual-core at 2.4 GHz
Storage Type	2.5" SATA II SSD
Storage Size	160 GB
Memory	4 GB standard, 8 GB optional 8 GB maximum
PXIe PCIe link configuration	2x8 or 4x4 (automatically configured based on chassis configuration)
PXIe PCIe data bandwidth (max)	2 GB/s max to/from the processor 4 GB/s max between PCIe backplane links (2-link mode)
Front panel connections	USB (4), 10/100/1000 LAN (2), VGA 2028x1536 @75 Hz (requires DVI-VGA adapter), DVI-I up to 1920x1200 @60 Hz, GPIB (Micro-D 25-pin), ExpressCard 34 mm slot, PXI trigger in/out (SMB)

Software Information

The embedded controller supports the Microsoft Windows 7 and XP operating systems and comes with the selected operating system installed. Keysight I/O libraries, including VISA, Keysight Connection Expert, and I/O monitor, are also pre-installed.

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



Figure 1. Accessories included with the M9036A

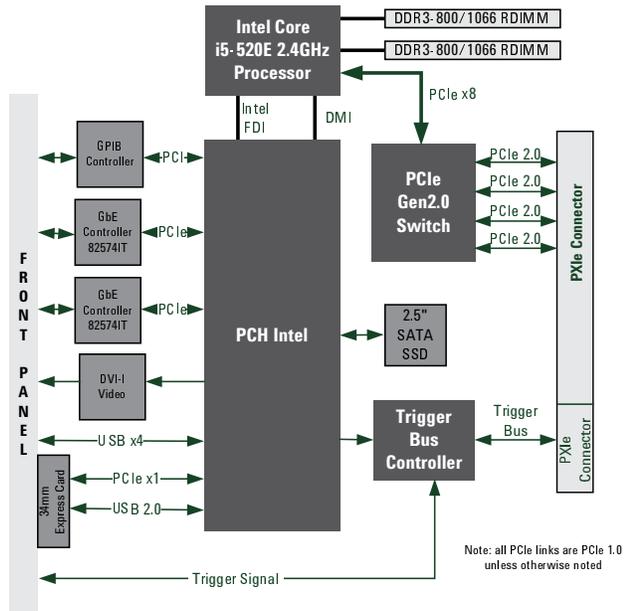


Figure 2. M9036A block diagram

Ordering Information

Typical Product Configuration

Model	Description
M9036A	PXle embedded PC controller
M9036A-M08	Memory upgrade from 4 GB RAM to 8 GB RAM
M9036A-WE6	Windows Embedded Standard 7 Operating System (64-bit)
M9018A	18-slot PXle chassis

Related Products

M9036A-WE3	Windows Embedded Standard 7 Operating System (32-bit)
M9036A-WXP	Downgrade to Windows XP Operating System (32-bit)

Advantage Services: Warranty

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

Standard	Return to Keysight warranty - 3 years
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www.keysight.com/find/modular
www.keysight.com/find/M9036A
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For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at: www.keysight.com/find/contactus

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