

KEYSIGHT TECHNOLOGIES (AGILENT HP)

M9536A

The Keysight M9536A is a high-performance AXIe embedded controller designed for high-throughput test and measurement systems. Operating in a single slot of an AXIe chassis, it features an Intel Xeon processor, ample system memory, and integrated high-speed interfaces, making it ideal for demanding modular instrumentation configurations.

SPECIFICATIONS

General

Interfaces	2 x LAN (Gigabit Ethernet), 2 x USB 2.0, 1 x DisplayPort, General Purpose I/O (GPIO), RS-232 serial
Display	External via DisplayPort (no onboard display panel)

Physical

Power Supply	Derived from AXIe backplane
Operating Temperature	0 to 50 °C °C
Dimensions (W×H×D)	30 mm × 322.25 mm × 280 mm mm
Weight	2.1 kg

Core System Architecture & Processing

Processor Type	Intel Xeon L5518
Processor Base Frequency	1.73 GHz
Processor Max Turbo Frequency	2.13 GHz
Processor Core Count	4
Processor Thread Count	8
System Memory Capacity	8 GB standard, expandable to 16 GB
System Memory Type	DDR3
Storage Capacity	160 GB standard SSD
Storage Interface Type	SATA

Host-Side Interfaces & Ports

USB Interface Specification	USB 2.0
Ethernet Port Speed	10/100/1000 Base-T
Display Outputs Support	1 x DisplayPort

Instrument & Target-Side Interfaces

PXI/PXIe/AXIe Backplane Interface Type	AXIe
PCI Express Link Width	x8 link to AXIe backplane
PCI Express Generation Support	Gen 2

Performance & Transfer Rates

Backplane System Bandwidth	Up to 4 GB/s
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Physical & Mechanical Specifications

Form Factor / Enclosure Standard	AXIe 1-slot module
Backplane Slot Occupancy	1 slot

Software, Drivers & Library Support

Supported Operating Systems	Windows Embedded Standard 7 (64-bit), Windows 7 (64-bit)
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Environmental & Compliance

Storage Temperature Range	-40 to 70 °C
Relative Humidity Range (Non-condensing)	10% to 90% RH (operating)

Performance

Processor Cache	8 MB
System Memory Speed	1066 MHz

Environmental

Operating Shock	30 g, half-sine, 11 ms duration
Operating Random Vibration	5 to 500 Hz, 0.21 g RMS
Non-Operating Random Vibration	5 to 500 Hz, 2.09 g RMS
Operating Altitude	Up to 3,000 m (10,000 ft)
Non-Operating Altitude	Up to 4,600 m (15,000 ft)

Compatibility

Chassis Compatibility	Keysight M9502A, M9505A AXIe chassis
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Compliance & Standards

AXIe Standard Compliance	AXIe-1 Revision 1.0
EMC Compliance	IEC 61326-1, EN 61326-1, AS/NZS CISPR 11, ICES/NMB-001
Safety Compliance	IEC 61010-1, EN 61010-1, UL 61010-1, CSA C22.2 No. 61010-1

Front Panel Connectivity

USB Ports Count	4 x USB 2.0
Ethernet Ports Count	2 x Gigabit RJ-45
Serial Port	1 x RS-232 (9-pin D-Sub)
Video Output Port	1 x VGA (15-pin D-Sub)

Memory Specifications

Memory Configuration Options	8 GB standard (2 x 4 GB), expandable to 24 GB (3 x 8 GB Option M24)
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Storage Specifications

Storage Configuration Options	160 GB HDD (Option H01) or 240 GB SSD (Option S01)
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TECHNOLOGY

AXIe Modular Controller

APPLICATIONS

AXIe System Control

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