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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight M9537A

Keysight M9537A AXIe High Performance Embedded Controller The Keysight M9537A is a one-slot AXIe embedded controller with Intel i7-6820EQ 2.8 GHz quad-core CPU, 8 GB DDR4 standard (32 GB max), 240 GB SSD, and Gen3 x16 backplane link up to 16 GB/s. Compact high-performance AXIe system control, multi-chassis expansion, digitizer host controller. Single-slot AXIe controller with Hyper-Threading quad-core CPU The Keysight M9537A is a one-slot AXIe embedded controller with Intel i7-6820EQ 2.8 GHz quad-core CPU, 8 GB DDR4 standard (32 GB max), 240 GB SSD, and Gen3 x16 backplane link up to 16 GB/s. Compact high-performance AXIe system control, multi-chassis expansion, digitizer host controller. Single-slot AXIe controller with Hyper-Threading quad-core CPU Front removable SSD and optional NVMe cache



MODEL

**Agilent / Keysight
M9537A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

M9537A

LISTING

<https://aumictechlabs.com/products/m9537a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight M9537A is a single-slot AXIe embedded controller that is the processing hub for modular instrumentation systems. Built around an Intel i7-6820EQ quad-core processor running at 2.8 GHz with 8 simultaneous threads, it delivers the computational power required for high-speed data acquisition and signal processing in aerospace, defense, and communications test environments. Technical Specifications Processor and Memory CPU: Intel i7-6820EQ quad-core,

2.8 GHz, 8 threads, 8 MB L2 cache RAM: DDR4-2133, dual 260-pin SODIMM sockets; 8 GB standard, up to 32 GB maximum Storage: 240 GB front-removable 2.5" SATA III SSD (primary); optional 400 GB NVMe SSD with PCIe x4 Gen 3 interface, delivering 2200 MBps read and 900 MBps write speeds Graphics and Connectivity GPU: Integrated Intel HD Graphics 530, 1.7 GB max video memory Video outputs: DisplayPort 1.2 (three ports, 3840 × 2160 @ 60 Hz), DVI (1920 × 1200 @ 60 Hz) Front panel: Four USB 3.0 ports, two USB 2.0 ports, two Gigabit Ethernet ports, one GP-IB port Expansion: x8 Gen 3 PCIe IPASS connector for second AXIe chassis or RAID storage control Backplane and Power AXIe backplane: PCIe Gen 3 ×16 link, up to 16 GB/s maximum data bandwidth PCIe fabric support: x4 Gen 2 through x16 Gen 3 Power: 3.5 A @ 48 V nominal input; 166 W power dissipation Physical Specifications Form factor: 1-slot AXIe module Dimensions: 30.48 mm (W) × 322.25 mm (H) × 280 mm (D) Weight: 2.9 kg

Key Features Eight-core processing with Hyper-Threading for parallel computation Dual Gigabit Ethernet for redundant network connectivity Triple 4K DisplayPort outputs for multi-monitor configurations Removable SSD design enables rapid system refresh Optional high-speed NVMe cache for intensive I/O workflows Supports up to 32 GB DDR4 memory for large dataset handling

Compatibility & Integration The M9537A inserts into slot 1 of M9502A or M9505A AXIe chassis (firmware 1.3.42 or later), or slots 1–6 and 8–14 of the M9514A 14-slot chassis when the M9521A system module occupies slot 7. Operates on Windows Embedded Standard 7 or Windows 10 IoT Enterprise (64-bit).

M9537A Characteristics / Specifications

PARAMETER	VALUE
Model	M9537A
Instrument Type	AXIe high performance embedded controller
Cpu	Intel i7-6820EQ quad-core
Cpu Threads	8
Cpu Clock Frequency	2.8 GHz
Chipset	Intel 5520/ICH10R
L2 Cache	8 MB
Ram Type	two DDR4-2133 260-pin SODIMM sockets
Ram Capacity Standard	8 GB
Ram Capacity Maximum	32 GB
System Storage Type	2.5 inch SSD SATA III
System Storage Size	240 GB
Nvme Cache Size Optional	400 GB PCIe x4 Gen 3
Video Type	Intel HD Graphics 530 up to 1.7 GB video memory
Displayport Max Resolution	3840×2160 at 60 Hz
Form Factor	1 slot AXIe
Size	30.48 mmWx 322.25 mmHx 280 mmDWeight: 2.9 kg (6.4 lbs)
Current Input Nominal	3.5 A at 48 V
Power Dissipation	166 W
Front Usb	two USB 2.0 and four USB 3.0
Front Ethernet	two 10/100/1000 BASE-T
Front Video	three DisplayPort 1.2
Front Pcie	x8 Gen 3 iPass
Front Gpib	Micro-D 25-pin
Backplane Pcie Max Bandwidth	up to 16 GB/s Gen 3 depending on chassis

PARAMETER	VALUE
Operating Temperature	0 C to 55 C
Storage Temperature	-40 C to 70 C
Operating Altitude	up to 10000 ft (3048 m)
Os Support	Windows Embedded Standard 7 64-bit or Windows 10 Enterprise 2016 LTSC 64-bit
Bandwidth	up to 16 GB/s Gen 3 depending on chassis

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 C to 70 C
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Operating Altitude	up to 10000 ft (3048 m)
Os Support	Windows Embedded Standard 7 64-bit or Windows 10 Enterprise 2016 LTSB 64-bit Notes CPU, memory, storage, I/O, size, weight, power, and environmental rows from Keysight M9537A AXIe Embedded Controller Specification Guide M9537-90003.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Performance Embedded Controller

Overview

The Keysight M9537A isaone-slot AXIe embedded controller with Intel i7-6820EQ 2.8 GHz quad-core CPU, 8 GB DDR4 standard (32 GB max), 240 GB SSD, and Gen3 x16 backplane link up to 16 GB/s.

Applications

Compact high-performance AXIe system control, multi-chassis expansion, digitizer host controller.

Key Features

Single-slot AXIe controller with Hyper-Threading quad-core CPU
Multiple 4K DisplayPort outputs
Front removable SSD and optional NVMe cache
GPIO USB LAN and PCIe front-panel I/O for hybrid systems

Technical Specifications

Technical Specifications

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Ram Capacity Standard	8 GB
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System Storage Type	2.5 inch SSD SATA III
System Storage Size	240 GB
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Video Type	Intel HD Graphics 530 up to 1.7 GB video memory
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Notes

CPU, memory, storage, I/O, size, weight, power, and environmental rows from Keysight M9537A AXIe Embedded Controller Specification Guide M9537-90003.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.