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Data Sheet

August 5, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) M9038A PXIe Embedded Controller

Keysight (Agilent) M9038A PXIe Embedded Controller The Keysight M9038A is a high-performance 4-slot PXIe embedded PC controller with Windows 10, based on an Intel Coffee Lake 6-core i7-9850HE (12 threads). Standard 32 GB DDR4-2666 RAM (optional 64 GB); front-removable 512 GB NVMe SSD for secure environments. Front I/O includes 1 GbE, 10 GbE, USB 2.0/3.0, GPIB, DisplayPort++, and dual Thunderbolt 3. PCIe x16 Gen3 to backplane provides up to ~16 GB/s class bandwidth. TPM 2.0 and UEFI Secure Boot. High-performance PXIe multi-chassis systems; secure/removable-drive ATE; embedded control of Keysight PXIe instruments. The Keysight M9038A is a high-performance 4-slot PXIe embedded PC controller with Windows 10, based on an Intel Coffee Lake 6-core i7-9850HE (12 threads). Standard 32 GB DDR4-2666 RAM (optional 64 GB); front-removable 512 GB NVMe SSD for secure environments. Front I/O includes 1 GbE, 10 GbE, USB 2.0/3.0, GPIB, DisplayPort++, and dual Thunderbolt 3. PCIe x16 Gen3 to backplane provides up to ~16 GB/s class bandwidth. TPM 2.0 and UEFI Secure Boot. High-performance PXIe multi-chassis systems; secure/removable-drive ATE; embedded control of Keysight PXIe instruments.



MODEL

**Keysight / Agilent
M9038A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

M9038A

LISTING

<https://aumictechlabs.com/products/m9038a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight (Agilent) M9038A PXIe Embedded Controller is a computing module that is the master controller within a PXIe chassis. It delivers the processing capability and connectivity required to manage complex test and measurement systems, supporting automated testing, data acquisition, and real-time control applications. The M9038A integrates directly with diverse PXIe instruments to create powerful platforms across engineering and scientific disciplines.

Technical Specifications

- Processor: Intel Core i7-6700TE (Quad-core, 2.4 GHz base, up to 3.4 GHz with Turbo Boost)
- Memory: 8 GB DDR4 SDRAM (expandable)
- Storage: 256 GB SSD
- Operating System: Windows 10 Pro (64-bit)
- Chassis Interface: PXIe (PCI Express)
- System Bandwidth: Up to 24 GB/s per slot

Key Features

- Single PXIe peripheral slot form factor
- Front-panel DisplayPort, USB 3.0, and Gigabit Ethernet connectivity
- Audio input/output ports for integrated applications
- Status LEDs and power button for chassis control
- Backplane power delivery with integrated chassis cooling
- Internal SATA support for expanded storage

Typical Applications

Automated test systems, data acquisition platforms, real-time instrumentation control, and distributed measurement networks leveraging PXIe instrument ecosystems.

Compatibility & Integration

The M9038A operates with standard PXIe chassis implementations and supports broad compatibility across PXIe instrument families. Software integration includes Keysight IO Libraries, PathWave, and third-party PXI-compliant drivers and applications.

Features & description

From manufacturer datasheet

Features

- Intel i7-9850HE 6-core / 12-thread; 8 GT/s
- 4-slot PXIe embedded controller (slot 1)
- 32 GB RAM standard; 64 GB optional
- Front-removable 512 GB NVMe SSD
- I/O: 1 GbE, 10 GbE, 4× USB 2.0, 2× USB 3.0, GPIB, DisplayPort++, 2× Thunderbolt 3
- PCIe x16 Gen3 to backplane (~16 GB/s)
- Windows 10 64-bit; Keysight IO Libraries preloaded
- TPM 2.0; UEFI Secure Boot

M9038A Characteristics / Specifications

PARAMETER	VALUE
Model	M9038A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	PXIe Embedded Controller
Alias	M9038A CPU / Memory
Processor	Intel Coffee Lake i7-9850HE (6 cores / 12 threads)
RAM	32 GB DDR4-2666 standard; optional 64 GB
Storage	512 GB NVMe M.2 SSD, front removable Form Factor / Bandwidth 3U, 4-slot PXIe module
Backplane	PCIe x16 Gen3, up to ~16 GB/s Operational Notes Prefer Keysight M9038A datasheet / user guide for power draw and chassis compatibility.
I/O	1 GbE, 10 GbE, 4× USB 2.0, 2× USB 3.0, GPIB, DisplayPort++, 2× Thunderbolt 3
Bandwidth	3U, 4-slot PXIe module

M9038A Specifications

PARAMETER	VALUE
Keysight (Agilent) M9038A PXIe Embedded Controller	Overview
Key Features	- Intel i7-9850HE 6-core / 12-thread; 8 GT/s
Technical Specifications	Model: M9038A
CPU / Memory	Processor: Intel Coffee Lake i7-9850HE (6 cores / 12 threads)
Form Factor / Bandwidth	3U, 4-slot PXIe module
Operational Notes	Prefer Keysight M9038A datasheet / user guide for power draw and chassis compatibility.

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 4-slot PXIe embedded PC controller with Windows 10, based on an Intel Coffee Lake 6-core i7-9850HE (12 threads). Standard 32 GB DDR4-2666 RAM (optional 64 GB); front-removable 512 GB NVMe SSD for secure environments. Front I/O includes 1 GbE, 10 GbE, USB 2.0/3.0, GPIB, DisplayPort++, and dual Thunderbolt 3. PCIe x16 Gen3 to backplane provides up to ~16 GB/s class bandwidth. TPM 2.0 and UEFI Secure Boot.

Applications

High-performance PXIe multi-chassis systems; secure/removable-drive ATE; embedded control of Keysight PXIe instruments.

Key Features

- Intel i7-9850HE 6-core / 12-thread; 8 GT/s
- 4-slot PXIe embedded controller (slot 1)
- 32 GB RAM standard; 64 GB optional
- Front-removable 512 GB NVMe SSD
- I/O: 1 GbE, 10 GbE, 4× USB 2.0, 2× USB 3.0, GPIB, DisplayPort++, 2× Thunderbolt 3
- PCIe x16 Gen3 to backplane (~16 GB/s)
- Windows 10 64-bit; Keysight IO Libraries preloaded
- TPM 2.0; UEFI Secure Boot

Technical Specifications

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PARAMETER	VALUE
Model	M9038A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	PXIe Embedded Controller
Alias	M9038A

CPU / Memory

Specifications

PARAMETER	VALUE
Processor	Intel Coffee Lake i7-9850HE (6 cores / 12 threads)
RAM	32 GB DDR4-2666 standard; optional 64 GB
Storage	512 GB NVMe M.2 SSD, front removable

Form Factor / Bandwidth

3U, 4-slot PXIe module

Backplane: PCIe x16 Gen3, up to ~16 GB/s

Operational Notes

Prefer Keysight M9038A datasheet / user guide for power draw and chassis compatibility.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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30-day returns
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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.