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Installation Guide** 

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MINISFORUM M1PRO AI Performance and Quad Display Output



Specification

Category	Intel® Core™ Ultra 5 125H System	Intel® Core™ Ultra 9 285H System
Processor	14 Cores / 18 Threads, up to 4.5 GHz, 65W TDP	16 Cores / 16 Threads, up to 5.4 GHz, 65W TDP
GPU	Intel® Arc™ graphics	Intel® Arc™ 140T GPU
Memory	DDR5 5600 MHz, SO-DIMM ×2, up to 128 GB	DDR5 6400 MHz, SO-DIMM ×2, up to 128 GB
Storage	2× M.2 2280 NVMe SSD (PCIe 4.0×4, up to 4TB)	2× M.2 2280 NVMe SSD (PCIe 4.0×4, up to 4TB)
Wireless	Wi-Fi 7, Bluetooth 5.4	Wi-Fi 7, Bluetooth 5.4

Category	Intel® Core™ Ultra 5 125H System	Intel® Core™ Ultra 9 285H System
Video Output	HDMI 2.1 (4K@60Hz), DP 1.4 (4K@60 Hz/144Hz), USB4 ×2 (8K@60Hz / 4K @144Hz)	HDMI 2.1 (4K@60Hz), DP 1.4 (4K@60 Hz/144Hz), USB4 ×2 (8K@60Hz / 4K @144Hz)
Audio Output	HDMI ×1, 3.5mm combo jack ×1, speakers ×2	HDMI ×1, 3.5mm combo jack ×1, speakers ×2
Audio Input	Dual mics (DMIC ×2), 3.5mm combo jack ×1	Dual mics (DMIC ×2), 3.5mm combo jack ×1
Front I/O	2× USB-A (USB 3.2 Gen2), 3.5mm combo jack ×1, reset hole ×1, USB4 ×1 (40Gbps, 15W PD Out)	2× USB-A (USB 3.2 Gen2), 3.5mm combo jack ×1, reset hole ×1, USB4 ×1 (40Gbps, 15W PD Out)
Rear I/O	HDMI 2.1 ×1, DP 1.4 ×1, USB4 ×1 (PD in 65–100W, PD out 15W), 2.5Gb LAN, OCuLink ×1, USB-A (USB 2.0) ×1, DC-In port	HDMI 2.1 ×1, DP 1.4 ×1, USB4 ×1 (PD in 65–100W, PD out 15W), 2.5Gb LAN, OCuLink ×1, USB-A (USB 2.0) ×1, DC-In port

Category	Intel® Core™ Ultra 5 125H System	Intel® Core™ Ultra 9 285H System
Buttons	Power button ×1, reset hole ×1	Power button ×1, reset hole ×1
Dimensions	128 × 126 × 52.5 mm	128 × 126 × 52 mm
Power	19V / 6.32A (120W)	19V / 6.32A (120W)
System	Windows 11 Pro	Windows 11 Pro

Master Every Scenario Redefine Desktop Productivity

Crafted from aerospace-grade aluminum with anodized unibody design. Smooth to the touch, supports both wall-mount and flat placement for any workspace.

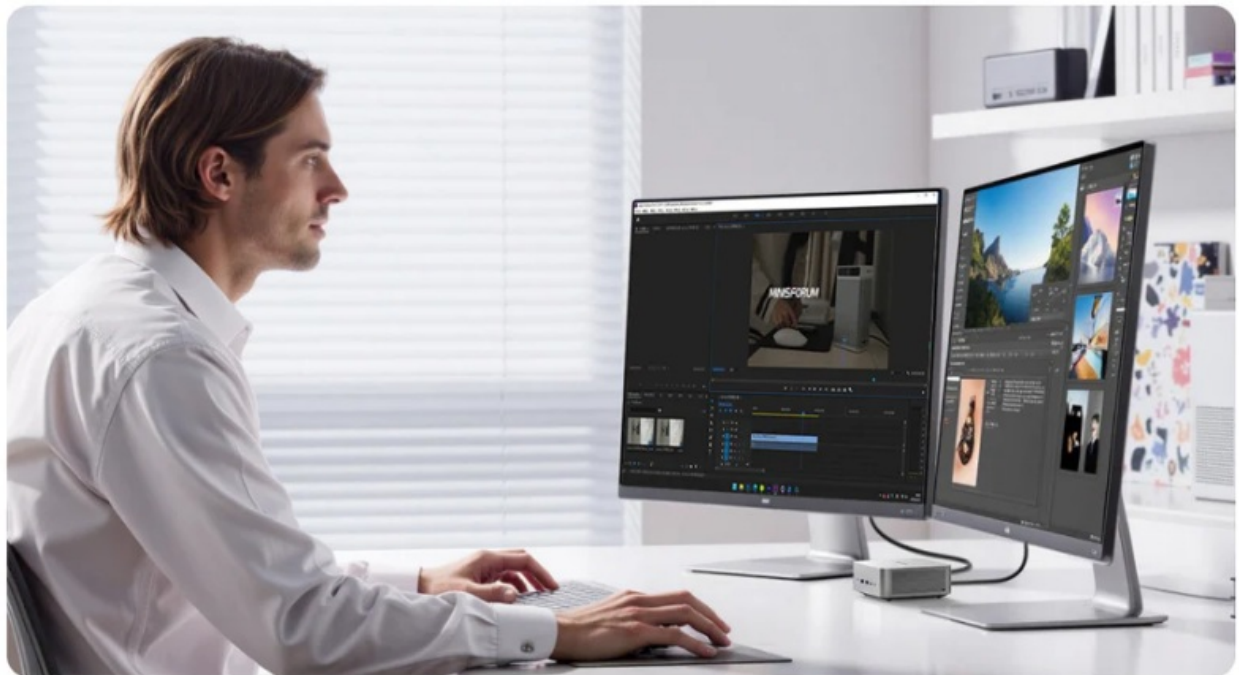
AI-Driven Productivity for Modern Work

Equipped with flagship AI performance and quad-display output, it handles local AI deployment, data processing, and remote collaboration with ease. The built-in sound card with noise reduction ensures smooth and professional video conferencing.



Desktop Aesthetics, Pro-Level Performance

Combining sleek metal aesthetics with flagship performance, it supports high-speed DDR5, RAID, and GPU expansion — ideal for virtual machines, Docker, and AI workflows on your desk.



Built for Streaming, Smooth&Professional

With an independent sound card and support for USB audio, it delivers exceptional sound quality. Quad-display output and WiFi 7 + 2.5G Ethernet ensure smooth, high-quality streaming and control.



Small Form, Epic Gameplay

Expand with an external GPU and unleash 65W of power to play AAA and ray-traced games smoothly. Fast memory and SSDs ensure quick loading, while immersive audio and multi-display support take your gaming to the next level.



Intel® Core™ Ultra 5 125H

Equipped with the latest-generation Intel Core Ultra processor, Intel® Core™ Ultra 5 125H, featuring 14 cores and 18 threads, with a maximum boost frequency of up to 4.5GHz, it can effortlessly handle various complex tasks in work processes, as well as provide rapid responses for multiple processes.



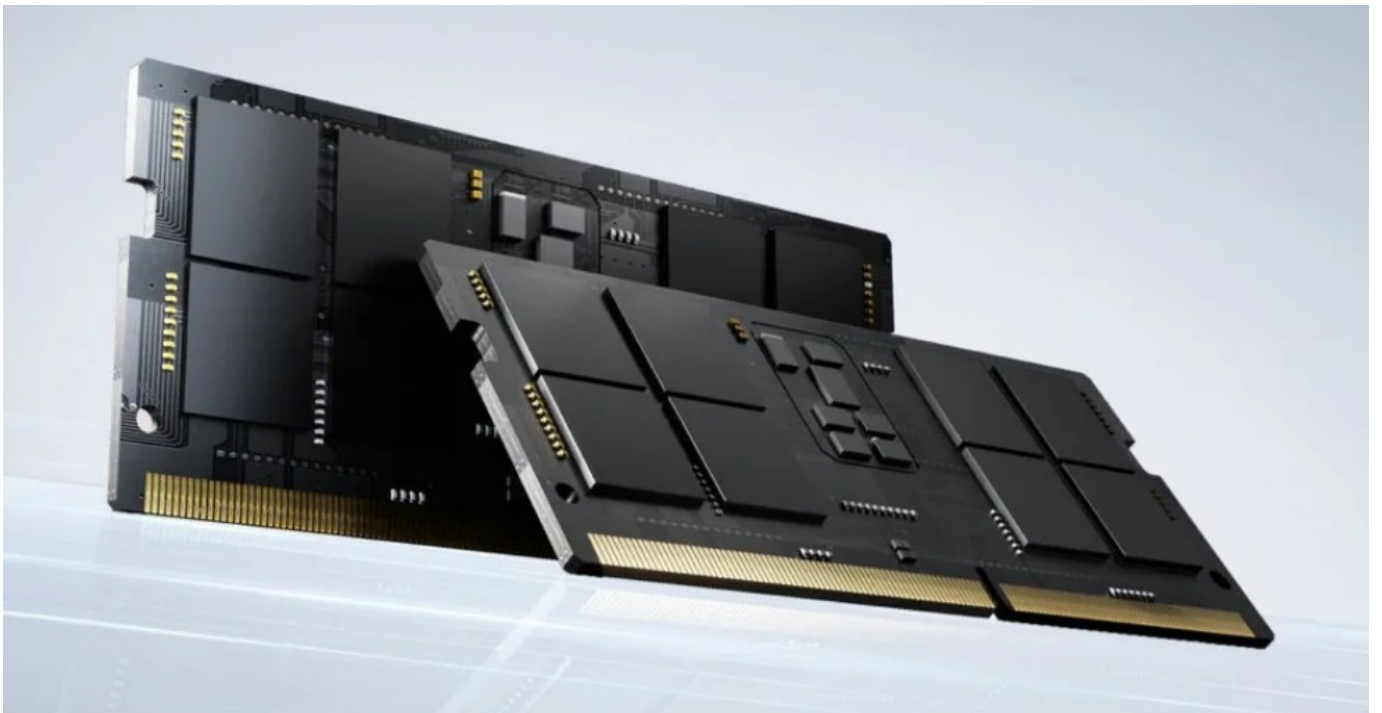
Lightweight Alloy Seamless Elegance

Crafted from aerospace-grade aluminum with anodized unibody design. Smooth to the touch, supports both wall-mount and flat placement for any workspace.



Effortless Multitasking with High Speed Memory

Dual-channel DDR5 memory up to 5600MHz, expandable to 128GB for smooth multitasking and fast performance.



Quad 4K Display for Efficient Multitasking

With USB4, HDMI 2.1, and DP 1.4, M1 Pro supports up to four 4K displays simultaneously — enabling smooth multitasking and optimized workflow management.



Full-Speed USB4 with Fast Data and Power

With transfer speeds up to 40Gbps, it handles large files and heavy workloads with ease. The front USB4 supports 15W output, while the rear USB4 offers 65–100W input and 15W output, meeting diverse power needs across scenarios.



High-Speed Expansion and Multi-Display Workflow



Front Ports

- **USB 3.2:** Fast data transfers for external drives and USB devices
- **3.5mm Audio Jack:** Combo input/output for headphones and microphones
- **Reset Hole:** Quick access for system or BIOS reset
- **USB4:** Delivers high-speed data transfer, supports external hard drives, monitors & eGPU docks, provides 15W PD OUT



Rear Ports

- **USB 2.0:** Ideal for keyboard, mouse, and other peripherals
- **USB4:** Delivers high-speed data transfer, supports external hard drives, monitors & eGPU docks, provides 15W PD OUT & 65-100W PD IN
- **HDMI / DP:** Support for high-definition video and multi-display setups
- **DC 19V:** Stable power input
- **OCuLink Port:** Connect external GPUs for enhanced graphics and AI performance (uses one M.2 slot)

FAQs

What are the main differences between the Ultra 5 and Ultra 9 models?

The Ultra 9 offers higher CPU boost speeds (5.4GHz vs 4.5GHz), faster RAM support (DDR5 6400 vs 5600), and a stronger Intel® Arc™ 140T GPU, making it more suitable for heavy workloads and gaming.

Can I upgrade the memory and storage in these systems?

Yes. Both support up to 128GB DDR5 RAM (SO-DIMM x2) and have two M.2 2280 NVMe SSD slots (PCIe 4.0, up to 4TB each).

Documents / Resources



[MINISFORUM M1PRO AI Performance and Quad Display Output \[pdf\]](#) Installation Guide

2A49R-M1PRO, 2A49RM1PRO, M1PRO AI Performance and Quad Display Output, M1PRO, AI Performance and Quad Display Output, Quad Display Output, Output

References

- [User Manual](#)

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