



ASUS NUC 14 Essential Fanless

Quiet, Reliable and low Maintenance



Powered by Intel® N-series processors, this Mini PC delivers silent, reliable performance with passive cooling and ultra-low power consumption. Enjoy DDR5, SSD, Wi-Fi 6E, and Bluetooth® 5.3 for modern computing requirements. Perfect for business and edge computing, it ensures zero noise, long-term stability, and low maintenance costs - all in a compact, cost-efficient design.

Key Selling Points

- Engineered for silent operation and zero maintenance:** The fanless cooling architecture eliminates moving parts, reducing failure risks. Includes Auto Power On for seamless system recovery after power outages—maximizing uptime for digital signage and IoT edge deployments.
- Compact & Easy to Deploy:** A space-saving 0.74L chassis (0.65kg) that fits anywhere. Whether mounted behind a monitor via VESA or hidden in tight retail kiosks, its integrated Auto Power On eliminates the need for manual intervention in hard-to-reach places.
- Exceptional Display Flexibility:** Powers up to three 4K displays simultaneously via HDMI 2.1, DP 1.4, and USB-C. Perfect for multi-screen signage, medical monitoring, and high-end retail visual interfaces.
- Everyday Computing Power & Efficiency:** Powered by Intel® N-series processors with DDR5 memory, delivering responsive multitasking and low power consumption for 24/7 business stability.
- Advanced Wireless Connectivity:** Supports Intel® Wi-Fi 6E and Bluetooth® 5.3, utilizing the 6GHz band to ensure fast and interference-free connections. Optimized for dense environments like smart offices, retail signs, and industrial IoT deployments.

Audience:

- Healthcare & Academic Professionals
- Industrial & Infrastructure Specialists
- Retail & Hospitality Managers

Target Usages:

- Library
- Exam room
- Healthcare
- IoT control room



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Specifications

Marketing Name	NUC 14 Essential Fanless Mini PC(NUC14MLK) & Kit (NUC14MLK-B)		
CPU	Intel® Processor ALD-N100, TDP 6W	Intel® Processor TWL-N150, TDP 6W	Intel® Processor TWL-N250, TDP 6W
Graphics	Intel® Graphics (N100)	Intel® Graphics (N150)	Intel® Graphics (N250)
Memory	1 x SO-DIMM, Up to DDR5-4800, 8 or 16GB*1		1 x SO-DIMM, Up to DDR5-4800, 16GB*1
Storage	1 x M.2 2280/2242 PCIe Gen3x4, supports 128GB~4TB NVMe or SATA SSD		
Wireless Network	Intel® Wi-Fi 6E AX211 (Gig+), Bluetooth® 5.3 ⁴		
LAN	1 x Realtek Ethernet Controller RTL8125D-CG, 2.5G	TPM	fTPM or TPM 2.0 chip
Audio	Realtek RTL8125D-CG	Card Reader	None
TPM	fTPM or TPM 2.0 chip	HDMI CEC	Yes
Front I/O Ports	1 x USB 3.2 Gen2 Type-C 2 x USB 3.2 Gen2 Type-A 1 x 3.5mm Headset Jack	Back I/O Ports	1 x USB 3.2 Gen2 Type-C w/ DisplayPort 1.4 2 x USB 3.2 Gen 2 Type-A 1 x USB 2.0 Type-A 1 x HDMI 2.1 (TMDS Compatible) 1 x DisplayPort 1.4 1 x RJ45 LAN 1 x DC-in
Side I/O Ports	1 x Kensington Lock		
Power Supply	Power Adapter Meets DOE Level VI, efficiency >=88%; 19VDC, 3.42A, 65W Power Adapter		
Dimensions (W x D x H)	135mm x 115mm x 45mm (5.31 x 4.52 x 1.77 inch) (w/o rubber ft) 135mm x 115mm x 48.2mm (5.31 x 4.52 x 1.89 inch) (w/rubber ft)		
Weights	Mini PC: 0.65kg (1.44 lb) / Kit: 0.64kg (1.41 lb)		
OS Support	Supports: Windows 11 Home 64-bit; Windows 11 Pro 64-bit; Windows 11 IoT Engerprise 64-bit; Ubuntu 24.04 LTS 64-bit; RedHat Enterprise Linux 64-bit; (Kit)*No OS installed at shipment;		
Accessories	AC Adapter+Power Cord ³ VESA Bracket and Screws Regulatory Insert Warranty Card	Operating Temperature	0 ⁰ to +40 ⁰ C ²
		Storage Temperature	-40 ⁰ C to +60 ⁰ C
		Humidity	0%-92% non-condensing ¹

1-Non-condensing humidity as defined by temperature vs dew point

2-System is rated for a maximum operating temperature of 35°C; exceeding this threshold may degrade system performance and reliability

3-Power cord included is region specific, and some SKUs do not included the power cord

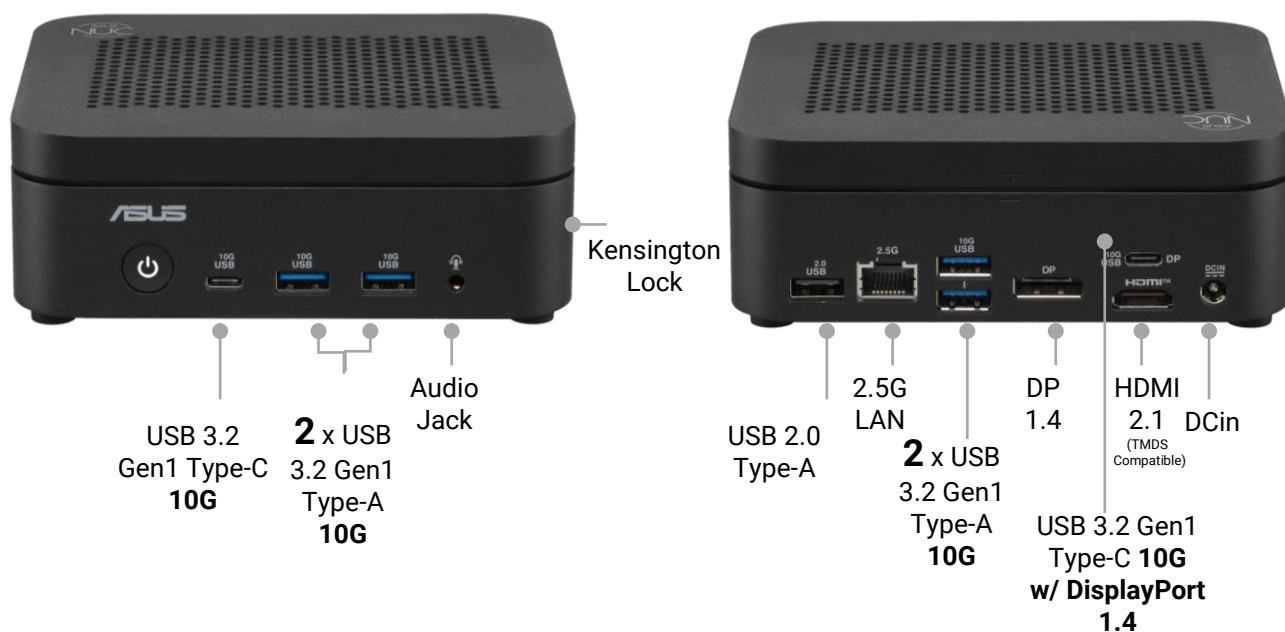
4-AX211 Wi-Fi sensing feature will not be available on Mill Canyon fanless running Windows 25H2 image.

Intel will not maintain the AX211 driver for Windows 25H2.

Only Systems runing Windows 24H2 image is supported.

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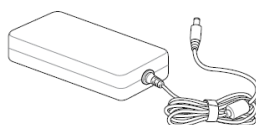
I/O Ports



What's in the box



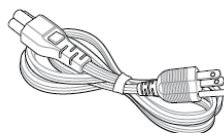
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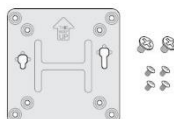
Power Adapter
19VDC 65W power supply



Inserts



Power Cord*
* Refer to SKU listings for available product configurations and cord options



VESA bracket and screws

NOTE:

- The most up-to-date and accurate product specifications are available on www.asus.com for download.
- Product and accessory images are for illustrative purposes only. The actual appearance and specifications may vary depending on the model.
- *The bundled power adapter may vary depending on the model and the country (or region) of sale.
- Some bundled accessories may vary depending on the model. For details on these accessories, refer to their respective user manuals.
- If the device or its components fail or malfunction during normal and proper use within the warranty period, bring the warranty card to the ASUS Service Center for replacement of the defective components.