ASUS NUC 16 PRO

Faster, Smarter, More Secure for the AI-Driven Enterprise



reddot award

ASUS NUC 16 Pro redefines high-performance compact computing for modern businesses. Powered by Intel® Core™ Ultra processors (Series 3) up to Ultra X9, it delivers up to 1.5× higher 3D graphics performance. On-board LPDDR5x memory supports up to 96GB, ensuring 20% faster speed and 50% lower power consumption, while dual 2.5G LAN and dual HDMI ports provide versatile connectivity. Built-in firmware TPM (fTPM 2.0) secures sensitive data, making the NUC 16 Pro a powerful, secure, and flexible solution for demanding professional workloads.

Key Selling Points

1. Flagship AI-Accelerated Hybrid Performance
Unleash next-gen agentic AI workloads with Intel® Core™ Ultra X9 Series 3 processor, Intel® Arc™ B390 GPU, and NPU 5. Hybrid XPU architecture delivers up to 180 TOPS — purpose-built as an agent computer for real-time Edge AI inference and machine learning tasks.

2. Next-Gen Speed & Efficiency (Core Ultra X7/X9 with Arc Graphics only)
Up to 96GB LPDDR5x 9600 MT/s, delivering up to 20% faster performance with 50% less power. Dual-fan thermal design ensures maximum CPU performance in a compact chassis.

3. Hyper-Connected Workspace
Intel® Wi-Fi 7 and Bluetooth 6.0 enable low-latency wireless. Dual 2.5G LAN ensures network redundancy, Zero Trust security, and high throughput for enterprise and agentic AI workloads.

4. Enterprise Security & Management
Supports Intel vPro® (select SKUs) and fTPM for hardware-based security. ASUS Control Center & Edge Suite enable centralized management, remote monitoring, and asset reporting.

5. Optimized Form Factor & Expansion
Compact 5x4 form factor with Tool-less Chassis 2.0. Supports massive expansion with up to 128GB DDR5 via 2x CSODIMM and dual M.2 SSDs (Gen5/Gen4). Maximizes thermal headroom while maintaining flexibility and performance.

6. Industrial Readiness & Long-Term Value
Durable, modular design supports harsh environments and long-term deployment. Rich internal I/O (RS-232, PCIe x1) enables POS, IoT, and industrial automation expansion.

Target Industries:

- Enterprise & Corporate
- Small & Medium Business (SMB)
- Education & Research
- Retail & Point-of-Sale
- Industrial Automation & IoT

Target Audience:

- Corporate IT & Enterprise Managers
- SMB Owners & Operators
- AI/IoT Developers & Integrators
- Creative Professionals / Multi-Display Users
- Tech Enthusiasts / Prosumers

Key Usage:

- Edge AI / Real-Time Inference
- Enterprise IT / Secure Management
- Industrial Automation, IoT & Digital Signage
- Multi-Display Workstations / Visualization
- High-Performance Computing / Modular Expansion

Specifications, content, and product availability are all subject to change without notice and may differ from country to country.
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ASUS NUC 16 PRO

Mini-PC – HDMI Specifications





Marketing Name	ASUS NUC 16 Pro Mini PC (LPDDR)			ASUS NUC 16 Pro Mini PC (CSODIMM)			
Project Code	NUC16GDK						
ASUS Logo	Yes						
ASUS NUC Logo	Yes						
Color	Black						
OS Support	Windows 11 Home 64-bit; Windows 11 Pro 64-bit						
CPU	**Intel® Core™ Ultra X9 388H, cTDP 65W**	**Intel® Core™ Ultra X9 378H, cTDP 65W**	**Intel® Core™ Ultra X7 358H, cTDP 65W**	**Intel® Core™ Ultra 7 366H (vPro), cTDP 65W**	**Intel® Core™ Ultra 7 356H, cTDP 65W**	**Intel® Core™ Ultra 5 335 (vPro), cTDP 45W**	**Intel® Core™ Ultra 5 325, cTDP 45W**
Chipset	Integrated						
Integrated Graphics	Intel® Arc™ Graphics			Intel® Graphics			
Memory	Up to LPDDR5x-9600, 16GB, 32GB, 64GB or 96GB			2 x CSO-DIMM, Up to DDR5-7200, 64GB*2		2 x CSO-DIMM, Up to DDR5-6400, 64GB*2	
Storage	1 x M.2 2280 PCIe Gen5x4, supports 128GB~8TB NVMe SSD 1 x M.2 2280 PCIe Gen4x4, supports 128GB~8TB NVMe SSD						
Wireless Network	Intel® Wi-Fi 7 BE211 (Gig+), Bluetooth 6.0						
LAN	**Dual** Intel® Ethernet Controller I226-V, 2.5G			Intel® Ethernet Controller I226-V and I226-LM, 2.5G	**Dual** Intel® Ethernet Controller I226-V, 2.5G	Intel® Ethernet Controller I226-V and I226-LM, 2.5G	**Dual** Intel® Ethernet Controller I226-V, 2.5G
Audio	No Analog Audio Support - Digital Audio (1)						
TPM	fTPM2.0 (2)						
Card Reader	None						
HDMI CEC	Yes, 2 ports on back panel						
Front I/O Ports	1 x USB 3.2 Gen2x1 Type-C 2 x USB 3.2 Gen2 Type-A						
Back I/O Ports	2 x Thunderbolt 4 Type-C w/ DisplayPort 2.1 2 x USB 3.2 Gen 2 Type-A 2 x HDMI 2.1 (TMDS Compatible) 2 x RJ45 LAN 1 x DC-in						
Side I/O Ports	1 x Kensington Lock						
Power Supply (3)	19.5VDC, 7.7A, 150W Power Adapter					19VDC, 6.32A, 120W Power Adapter	
Dimensions (W x D x H) /	144 x 117 x 42 mm (5.67 x 4.61 x 1.65 inch)			144 x 117 x 42 mm (5.67 x 4.61 x 1.65 inch)			
Weight	0.75 kg (1.65 lb)			0.91 kg (2.01 lb)			
Operating Temperature	0˚C - 40˚C						
Storage Temperature	-40˚C to 60˚C						
Humidity	0%-92% non-condensing (4)						
Noise Level	0~38 dBA (Standard mode)						
Accessories	AC Adapter+Power Cord[2] VESA Bracket and Screws Cable Clip Safety/Caution/Regulatory Insert Warranty Card						
Note	(1) Up to 7.1 multichannel audio (or 8-channel) digital audio on HDMI and DP Type C ports (2) Option for Discrete TPM 2.0 (3) Power cord included is region specific, and some SKUs do not include the power cord (4) Non-condensing Humidity defined by dew point						

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ASUS NUC 16 PRO

Mini-PC – DP Specifications




Marketing Name	ASUS NUC 16 Pro Mini PC (LPDDR)			ASUS NUC 16 Pro Mini PC (CSODIMM)			
Project Code	NUC16GDK						
ASUS Logo	Yes						
ASUS NUC Logo	Yes						
Color	Black						
OS Support	Windows 11 Home 64-bit; Windows 11 Pro 64-bit						
CPU	**Intel® Core™ Ultra X9 388H, cTDP 65W**	**Intel® Core™ Ultra X9 378H, cTDP 65W**	**Intel® Core™ Ultra X7 358H, cTDP 65W**	**Intel® Core™ Ultra 7 366H (vPro), cTDP 65W**	**Intel® Core™ Ultra 7 356H, cTDP 65W**	**Intel® Core™ Ultra 5 335 (vPro), cTDP 45W**	**Intel® Core™ Ultra 5 325, cTDP 45W**
Chipset	Integrated						
Integrated Graphics	Intel® Arc™ Graphics			Intel® Graphics			
Memory	Up to LPDDR5x-9600, 16GB, 32GB, 64GB or 96GB			2 x CSO-DIMM, Up to DDR5-7200, **64GB*2**		2 x CSO-DIMM, Up to DDR5-6400, **64GB*2**	
Storage	1 x M.2 2280 PCIe Gen5x4, supports 128GB~8TB NVMe SSD 1 x M.2 2280 PCIe Gen4x4, supports 128GB~8TB NVMe SSD						
Wireless Network	Intel® Wi-Fi 7 BE211 (Gig+), Bluetooth 6.0						
LAN	Dual Intel® Ethernet Controller I226-V, 2.5G			Intel® Ethernet Controller I226-V and I226-LM, 2.5G	Dual Intel® Ethernet Controller I226-V, 2.5G	Intel® Ethernet Controller I226-V and I226-LM, 2.5G	Dual Intel® Ethernet Controller I226-V, 2.5G
Audio	No Analog Audio Support - Digital Audio (1)						
TPM	fTPM2.0 (2)						
Card Reader	None						
HDMI CEC	**None**						
Front I/O Ports	1 x USB 3.2 Gen2x1 Type-C 2 x USB 3.2 Gen2 Type-A						
Back I/O Ports	2 x Thunderbolt 4 Type-C w/ DisplayPort 2.1 2 x USB 3.2 Gen 2 Type-A **2 x DP 2.1** 2 x RJ45 LAN 1 x DC-in						
Side I/O Ports	1 x Kensington Lock						
Power Supply	19.5VDC, 7.7A, 150W Power Adapter					19VDC, 6.32A, 120W Power Adapter	
Dimensions (W x D x H) / Weight	144 x 117 x 42 mm (5.67 x 4.61 x 1.65 inch) / 0.75 kg (1.65 lb)			144 x 117 x 42 mm (5.67 x 4.61 x 1.65 inch) 0.91 kg (2.01 lb)			
Operating Temperature	0˚C - 40˚C						
Storage Temperature	-40˚C to 60˚C						
Humidity	0%-92% non-condensing (4)						
Noise Level	0~38 dBA (Standard mode)						
Accessories	AC Adapter+Power Cord[2] VESA Bracket and Screws Cable Clip Safety/Caution/Regulatory Insert Warranty Card						
Note	(1) Up to 7.1 multichannel audio (or 8-channel) digital audio on HDMI and DP Type C ports (2) Option for Discrete TPM 2.0 (3) Power cord included is region specific, and some SKUs do not include the power cord (4) Non-condensing Humidity defined by dew point						

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ASUS NUC 16 PRO

Kit – HDMI Specifications



Marketing Name	ASUS NUC 16 Pro Kit (LPDDR)			ASUS NUC 16 Pro Kit (CSODIMM)			
Project Code	NUC16GDK-B						
ASUS Logo	No						
ASUS NUC Logo	No						
Color	Black						
OS Support	Supports: Windows 11 Home 64-bit; Windows 11 Pro 64-bit; Windows 11 IoT Enterprise 64-bit; Windows 11 Pro Education 64-bit; Ubuntu 24.04 LTS 64-bit; RedHat Enterprise Linux 10.0 64-bit; ***No OS installed at shipment**						
CPU	**Intel® Core™ Ultra X9 388H, cTDP 65W**	**Intel® Core™ Ultra X9 378H, cTDP 65W**	**Intel® Core™ Ultra X7 358H, cTDP 65W**	**Intel® Core™ Ultra 7 366H (vPro), cTDP 65W**	**Intel® Core™ Ultra 7 356H, cTDP 65W**	**Intel® Core™ Ultra 5 335 (vPro), cTDP 45W**	**Intel® Core™ Ultra 5 325, cTDP 45W**
Chipset	Integrated						
Integrated Graphics	Intel® Arc™ Graphics			Intel® Graphics			
Memory	Up to LPDDR5x-9600, 16GB, 32GB, 64GB or 96GB			2 x CSO-DIMM, Up to DDR5-7200, 64GB*2		2 x CSO-DIMM, Up to DDR5-6400, 64GB*2	
Storage	1 x M.2 2280 PCIe Gen5x4, supports 128GB~8TB NVMe SSD 1 x M.2 2280 PCIe Gen4x4, supports 128GB~8TB NVMe SSD						
Wireless Network	Intel® Wi-Fi 7 BE211 (Gig+), Bluetooth 6.0						
LAN	**Dual** Intel® Ethernet Controller I226-V, 2.5G			Intel® Ethernet Controller I226-V and I226-LM, 2.5G	**Dual** Intel® Ethernet Controller I226-V, 2.5G	Intel® Ethernet Controller I226-V and I226-LM, 2.5G	**Dual** Intel® Ethernet Controller I226-V, 2.5G
Audio	No Analog Audio Support - Digital Audio (1)						
TPM	fTPM2.0 (2)						
Card Reader	None						
HDMI CEC	Yes, 2 ports on back panel						
Front I/O Ports	1 x USB 3.2 Gen2x1 Type-C 2 x USB 3.2 Gen2 Type-A						
Back I/O Ports	2 x Thunderbolt 4 Type-C w/ DisplayPort 2.1 2 x USB 3.2 Gen 2 Type-A 2 x HDMI 2.1 (TMDS Compatible) 2 x RJ45 LAN 1 x DC-in						
Side I/O Ports	1 x Kensington Lock						
Power Supply (3)	19.5VDC, 7.7A, 150W Power Adapter					19VDC, 6.32A, 120W Power Adapter	
Dimensions (W x D x H) /	144 x 117 x 42 mm (5.67 x 4.61 x 1.65 inch)			144 x 117 x 42 mm (5.67 x 4.61 x 1.65 inch)			
Weight	0.70 kg (1.54 lb)			0.73 kg (1.61 lb)			
Operating Temperature	0˚C - 40˚C						
Storage Temperature	-40˚C to 60˚C						
Humidity	0%-92% non-condensing[3]						
Noise Level	0~38 dBA (Standard mode)						
Accessories	AC Adapter+Power Cord[2] VESA Bracket and Screws Cable Clip Safety/Caution/Regulatory Insert Warranty Card						
Note	(1) Up to 7.1 multichannel audio (or 8-channel) digital audio on HDMI and DP Type C ports (2) Option for Discrete TPM 2.0 (3) Power cord included is region specific, and some SKUs do not include the power cord (4) Non-condensing Humidity defined by dew point						

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ASUS NUC 16 PRO

Kit – DP Specifications



Marketing Name	ASUS NUC 16 Pro Kit (LPDDR)			ASUS NUC 16 Pro Kit (CSODIMM)			
Project Code	NUC16GDK-B						
ASUS Logo	No						
ASUS NUC Logo	No						
Color	Black						
OS Support	Supports: Windows 11 Home 64-bit; Windows 11 Pro 64-bit; Windows 11 IoT Enterprise 64-bit; Windows 11 Pro Education 64-bit; Ubuntu 24.04 LTS 64-bit; RedHat Enterprise Linux 10.0 64-bit; ***No OS installed at shipment**						
CPU	**Intel® Core™ Ultra X9 388H, cTDP 65W**	**Intel® Core™ Ultra X9 378H, cTDP 65W**	**Intel® Core™ Ultra X7 358H, cTDP 65W**	**Intel® Core™ Ultra 7 366H (vPro), cTDP 65W**	**Intel® Core™ Ultra 7 356H, cTDP 65W**	**Intel® Core™ Ultra 5 335 (vPro), cTDP 45W**	**Intel® Core™ Ultra 5 325, cTDP 45W**
Chipset	Integrated						
Integrated Graphics	Intel® Arc™ Graphics			Intel® Graphics			
Memory	Up to LPDDR5x-9600, 16GB, 32GB, 64GB or 96GB			2 x CSO-DIMM, Up to DDR5-7200, 64GB*2		2 x CSO-DIMM, Up to DDR5-6400, 64GB*2	
Storage	1 x M.2 2280 PCIe Gen5x4, supports 128GB~8TB NVMe SSD 1 x M.2 2280 PCIe Gen4x4, supports 128GB~8TB NVMe SSD						
Wireless Network	Intel® Wi-Fi 7 BE211 (Gig+), Bluetooth 6.0						
LAN	**Dual** Intel® Ethernet Controller I226-V, 2.5G			Intel® Ethernet Controller I226-V and I226-LM, 2.5G	**Dual** Intel® Ethernet Controller I226-V, 2.5G	Intel® Ethernet Controller I226-V and I226-LM, 2.5G	**Dual** Intel® Ethernet Controller I226-V, 2.5G
Audio	No Analog Audio Support - Digital Audio [1]						
TPM	fTPM2.0 [2]						
Card Reader	None						
HDMI CEC	None						
Front I/O Ports	1 x USB 3.2 Gen2x1 Type-C 2 x USB 3.2 Gen2 Type-A						
Back I/O Ports	2 x Thunderbolt 4 Type-C w/ DisplayPort 2.1 2 x USB 3.2 Gen 2 Type-A **2 x DP 2.1** 2 x RJ45 LAN 1 x DC-in						
Side I/O Ports	1 x Kensington Lock						
Power Supply	19.5VDC, 7.7A, 150W Power Adapter					19VDC, 6.32A, 120W Power Adapter	
Dimensions (W x D x H) /	144 x 117 x 42 mm (5.67 x 4.61 x 1.65 inch)			144 x 117 x 42 mm (5.67 x 4.61 x 1.65 inch)			
Weight	0.70 kg (1.54 lb)			0.73 kg (1.61 lb)			
Operating Temperature	0˚C - 40˚C						
Storage Temperature	-40˚C to 60˚C						
Humidity	0%-92% non-condensing[3]						
Noise Level	0~38 dBA (Standard mode)						
Accessories	AC Adapter+Power Cord[2] VESA Bracket and Screws Cable Clip Safety/Caution/Regulatory Insert Warranty Card						
Note	[1] Up to 7.1 multichannel audio (or 8-channel) digital audio on HDMI and DP Type C ports [2] Option for Discrete TPM 2.0 [3] Power cord included is region specific, and some SKUs do not include the power cord [4] Non-condensing Humidity defined by dew point						

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ASUS NUC 16 PRO

Board Specifications

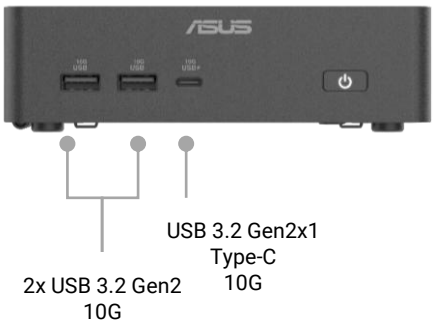
Marketing Name	ASUS NUC 16 Pro Board (HDMI/LPDDR5x)	ASUS NUC 16 Pro Board (DP/LPDDR5x)	ASUS NUC 16 Pro Board (HDMI/CSODIMM)	ASUS NUC 16 Pro Board (DP/CSODIMM)	ASUS NUC 16 Pro Board (HDMI/CSODIMM)	ASUS NUC 16 Pro Board (DP/CSODIMM)
Project Code	**NUC16GDB**					
OS Support	Supports: Windows 11 Home 64-bit; Windows 11 Pro 64-bit; Windows 11 IoT Enterprise 64-bit; Windows 11 Pro Education 64-bit; Ubuntu 24.04 LTS 64-bit; RedHat Enterprise Linux 10.0 64-bit; ***No OS installed at shipment**					
CPU	**Intel® Core™ Ultra X9 388H, cTDP 65W** **Intel® Core™ Ultra X9 378H, cTDP 65W** **Intel® Core™ Ultra X7 358H, cTDP 65W**		**Intel® Core™ Ultra 7 366H (vPro), cTDP 65W** **Intel® Core™ Ultra 7 356H, cTDP 65W**		**Intel® CoreTM Ultra 5 335 (vPro), cTDP 45W** **Intel® Core™ Ultra 5 325, cTDP 45W**	
Chipset	Integrated					
Integrated Graphics	Intel® Arc™ Graphics		Intel® Graphics			
Memory	Up to LPDDR5x-9600, 16GB, 32GB, 64GB or 96GB		2 x CSO-DIMM, Up to DDR5-7200, 64GB*2		2 x CSO-DIMM, Up to DDR5-6400, 64GB*2	
Storage	1 x M.2 2280 PCIe Gen5x4, supports 128GB~8TB NVMe SSD 1 x M.2 2280 PCIe Gen4x4, supports 128GB~8TB NVMe SSD					
Wireless Network	None					
LAN	**Dual** Intel® Ethernet Controller I226-V		**Dual** Intel® Ethernet Controller I226-V/LM, 2.5G[1]			
Audio	No Analog Audio Support - Digital Audio (1)					
TPM	fTPM2.0 (2)					
Card Reader	None					
HDMI CEC	Yes, 2 ports on back panel	No	Yes, 2 ports on back panel	No	Yes, 2 ports on back panel	No
Front I/O Ports	1 x USB 3.2 Gen2x1 Type-C 2 x USB 3.2 Gen2 Type-A					
Back I/O Ports	2 x Thunderbolt 4 Type-C w/ DisplayPort 2.1 2 x USB 3.2 Gen 2 Type-A 2 x RJ45 LAN 1 x DC-in					
	2 x HDMI 2.1 (TMDS Compatible)	**2 x DP 2.1**	**2 x HDMI 2.1 (TMDS Compatible)**	**2 x DP 2.1**	**2 x HDMI 2.1 (TMDS Compatible)**	**2 x DP 2.1**
Internal Headers	2 x USB 2.0 1 x RS232 1 x PCIe x1 Gen2 1 x Front Panel 1x Power 1 x I2C 1 x eDP 1.5 1x CPU Fan 1x Aux Fan					
Power Supply	**Not Included**					
Dimensions (W x D x H) /	138 x 113.5 x 32 mm (5.43 x 4.47 x 1.26 inch)		138 x 113.5 x 32 mm (5.43 x 4.47 x 1.26 inch)			
Weight	0.33 kg (0.73 lb)		0.36 kg (0.79 lb)			
Operating Temperature	0˚C - 40˚C					
Storage Temperature	-40˚C to 60˚C					
Humidity	0%-92% non-condensing[2]					
Accessories	Warranty Card; Safety/Caution/Regulatory Insert					
Note	Board Only with Thermal Solution [1]Up to 7.1 multichannel audio (or 8-channel) digital audio on HDMI and DP Type C ports		Board Only with Thermal Solution [1]Intel® Ethernet Controller I226-LM included on vPro enabled systems [2]Up to 7.1 multichannel audio (or 8-channel) digital audio on HDMI and DP Type C ports			
	2 - Non-condensing Humidity defined by dew point		3 - Non-condensing Humidity defined by dew point			

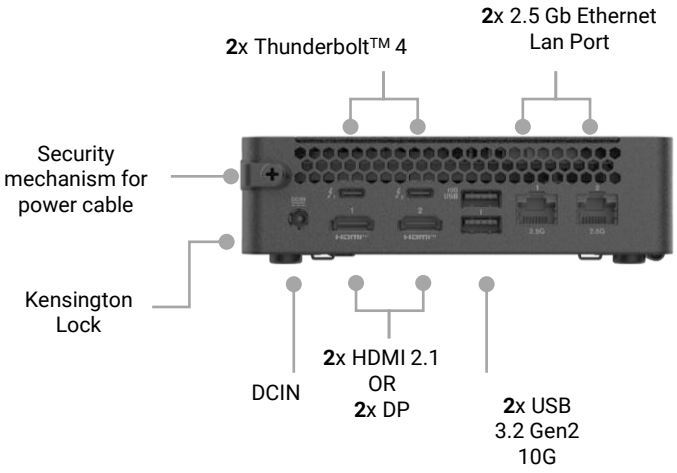
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I/O Ports





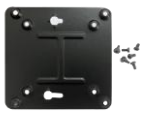
What's in box



NUC 16 Pro



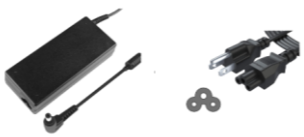
Regulatory Flyer



VESA Mount + Screws



Safety/Caution Flyer



Power Adapter and
Power Cord*



NUC Warranty Card

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.

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