

Aspen PN50 – AMD Ryzen R5-4500U

Form and Function

Aspen PN50 is an ultracompact computer that delivers powerful performance for a wide variety of home and business applications. Featuring the latest AMD Ryzen™ 4000 Renoir mobile processor with Radeon™ Vega graphics, and support for high-speed 3200 MHz DDR4 memory, Aspen PN50 is ready to take on demanding workloads, yet its diminutive size takes up minimal space on a desk and makes it suited for applications where traditional PCs won't fit – from digital signage to home-theater setups.

Feature Rich

Aspen PN50 supports up to 8K resolution at 60 Hz or up to four displays simultaneously, with up to 4K resolution at 60 Hz, providing ultra-realistic visuals. It is also suitable for flexible business scenarios,

Wi-Fi 6 (802.11ax) networking ensures stable, high-speed data transfers, even in crowded networking environments, and dual USB-C ports support data transfer and DisplayPort functionality over a single cable. Aspen PN50 is also ready for Microsoft Cortana, with integrated dual-array front microphones for convenient voice control, and features an infrared (IR) sensor, letting users control applications via remote control.

Performance

Aspen PN50 is powered by the latest AMD Ryzen™ 4000 Renoir mobile processor, which delivers a system performance uplift of up to 14% and provides up to 35% better performance in daily multitask computing, comparing with mainstream mobile processors – providing powerful computing capacity and enabling easy multitasking and smooth operation.

Highlighted features

- AMD® Ryzen™ R5-4500U CPU
- AMD® Radeon™ Vega 6 Graphics
- Two DDR4-3200 SO-DIMM Sockets
- M.2 slot supports PCI or SATA SSDs
- 2.5" SATA drive bay
- HDMI 2.0a supporting 4K
- Two DP 1.4 via USB-C ports
- DisplayPort 1.4
- 10/100/1000 Mbps RJ45 Ethernet
- Intel® Wi-Fi 6
- Intel® Bluetooth 5
- Three USB 3.2, gen 1, type-A ports
- Two USB 3.2, gen 2, type-C ports
- IR receiver port for remote control
- Internal Dual-Band Antennas
- Card reader (SD/SDHC/SDXC/MMC)
- Audio combo mic in / line out
- Built-in dual microphone with Cortana
- 19VDC 65W power supply adapter
- Kensington lock slot
- VESA mount kit

Customization

- Supports DDR4 RAM 4GB-64GB
- Supports M.2 SSD 128GB-2TB
- Supports 2.5 SATA 64Gb-8TB



Simply NUC Services

You can order this NUC in your various configurations, as well as your corporate OS Image loaded and ready to deploy.

Technical Specifications

<p>Processor</p> <ul style="list-style-type: none"> • AMD® Ryzen™ R5-4500U CPU 2.3 GHz, 4.0 GHz Turbo, 6C/6T, 15W 	<p>Graphics</p> <ul style="list-style-type: none"> • AMD® Radeon™ Vega 6 Graphics, up to 1.5 GHz • DisplayPort 1.4 (Supports up to up to 7680 x 4320@30Hz, or 5120 x 2280 @120Hz) • One HDMI 2.0a port (Supports up to 3840 x 2160 @60Hz) • Two USB Type-C ports with DisplayPort 1.4 (Supports up to 7680 x 4320 @30Hz, or 5120 x 2280@120Hz) • Max 8K @ 60Hz display or 4x 4K displays @ 60Hz 	<p>System Memory</p> <ul style="list-style-type: none"> • Two DDR4-3200 SO-DIMM sockets, 64GB Max, 1.2V
<p>Storage Capabilities</p> <ul style="list-style-type: none"> • One M.2 socket supporting 22x80 M.2 SSDs, SATA or PCIe, 2TB Max • One SATA port for 2.5" HDD or SSD, 8TB Max. (7mm and 9.5mm only) • 3-in-1 card reader: SD/SDHC/MMC 	<p>Peripheral Connectivity</p> <ul style="list-style-type: none"> • 10/100/1000 Mbps RJ45 Ethernet • Three USB 3.1 Gen2 Type-A ports (two back; one front) • Two USB 3.1 Gen2 Type-C ports (one back; one front) • Intel® Wi-Fi 6 AX200 (802.11ax), 2x2, up to 2.4 Gbps with Bluetooth 5 • Consumer infrared receiver on front • Built-in dual microphone with support for Microsoft Cortana 	<p>Front Panel Header</p> <ul style="list-style-type: none"> • Reset, HDD LED, Power LEDs, power on/off
<p>Audio</p> <ul style="list-style-type: none"> • Up to 7.1 surround via HDMI • Front headset jack • Front mic jack • Built-in dual microphone array with support for Microsoft Cortana 	<p>Baseboard Power Requirements</p> <ul style="list-style-type: none"> • 19V, 65W AC-DC power adapter with detachable power cord <p>Mechanical Chassis Size</p> <ul style="list-style-type: none"> • 4.5" x 4.5" x 1.9" • 115 x 115 x 49 mm 	<p>Expansion Capabilities</p> <ul style="list-style-type: none"> • 2.5in drive bay for SATA drive • HDMI CEC header

Certification and Regulations

<p>Product Safety Regulations and Standards</p> <ul style="list-style-type: none"> • UL 60950-1 • CAN ICES-3(B)/NMB-3(B) 	<p>EMC/RF Regulations and Standards</p> <ul style="list-style-type: none"> • FCC CFR Title 47, Chapter I, Part 15, Subparts B, C, E • BSMI • CB • CE • FCC • CCC • Energy Star • C-Tick • Wi-Fi Certified • RF Certified • VCCI 	<p>Environmental Regulations</p> <ul style="list-style-type: none"> • RoHS Directive 2011/65/EU • EU REACH and Article 33 • Japan RoHS (JIS-C-0950)
<p>Environment Operating Temp</p> <ul style="list-style-type: none"> • 0° C to +35° C • Non-condensing Humidity 		<p>Certified Operating Systems</p> <ul style="list-style-type: none"> • Windows 10 64-bit (Pro & Home)