



INTEL® NUC 8 MAINSTREAM-G MINI PCS & KITS

Powerful performance and visually immersive graphics in a compact Mini PC

Built for casual gaming and home entertainment



THE POWER OF SMALL

Intel® NUC 8 Mainstream-G
Mini PCs and Kits



Intel NUC Mini PCs and Kits

Introducing the first Intel® NUC with **8th generation Intel® Core™ processors** and **Radeon® 540X discrete graphics** for all your gaming and entertainment needs. Play casual games, binge watch the latest series, or stream digital music like never before with a quad-core processor that delivers 2x faster performance.¹

Intel NUC Mini PCs

Choose an Intel NUC that's right for you – accelerate performance with **Intel® Optane™ memory** paired with a **high capacity HDD** to load the next game level up to 4.7x^{2,3} faster, or get efficient reliability with an **SSD** with no moving parts so bumps and drops won't damage your drive.

The Intel® NUC: who says small isn't powerful?

INTEL® NUC 8 MAINSTREAM-G MINI PCS AND KITS

Built with 8th generation Intel® Core™ i7 processors



| | Mini PCs | | Kit | China Specific | |
|--|--|-------------|---|------------------------------|-------------|
| | NUC8i7INHJA | NUC8i7INHPA | NUC8i7INHx | NUC8i7INHZ6 | NUC8i7INHP6 |
| Processor | 8th Generation Intel® Core™ i7-8565U processor | | | | |
| Graphics | AMD Radeon* 540X discrete graphics, 2 GB GDDR5 graphics memory | | | | |
| Memory | 8 GB Dual-channel LPDDR3-1866 | | | | |
| Storage | 16 GB Intel® Optane™ Memory 1 TB SATA3 HDD | 256 GB SSD | Not Included | 128 GB SSD 1 TB SATA3 HDD | 256 GB SSD |
| Other Features & Technology | HDMI* 2.0b and Mini DisplayPort* 1.4, 3 USB 3.1 Gen 2 Type-A ports, 1 USB 3.1 Gen 2 Type-C port, Intel® Gigabit Wi-Fi and Bluetooth* v5, Intel® Gigabit LAN, SDXC Card Slot, 3 Year Limited Warranty | | | | |
| Geo-Specific Power Cord | US, EU, UK, AU | US, EU | Not Included | CN | |
| Operating System | Windows® 10 Home | | Not Included | | |
| What's Needed | — | — | 22x42 or 22x80 M.2 SSD and/or 2.5" SATA HDD/SSD, Operating System, Power Cord | Operating System | |



INTEL® NUC 8 MAINSTREAM-G MINI PCS AND KITS

Built with 8th generation Intel® Core™ i5 processors



| | Mini PC | | Kit | China Specific |
|--|--|-------------|---|------------------|
| | NUC8i5INHJA | NUC8i5INHPA | NUC8i5INHx | NUC8i5INHP6 |
| Processor | 8th Generation Intel® Core™ i5-8265U processor | | | |
| Graphics | AMD Radeon* 540X discrete graphics, 2 GB GDDR5 graphics memory | | | |
| Memory | 8 GB Dual-channel LPDDR3-1866 | | | |
| Storage | 16 GB Intel® Optane™ Memory 1 TB SATA3 HDD | 256 GB SSD | Not Included | 256 GB SSD |
| Other Features & Technology | HDMI* 2.0b and Mini DisplayPort* 1.4, 3 USB 3.1 Gen 2 Type-A ports, 1 USB 3.1 Gen 2 Type-C port, Intel® Gigabit Wi-Fi and Bluetooth* v5, Intel® Gigabit LAN, SDXC Card Slot, 3 Year Limited Warranty | | | |
| Geo-Specific Power Cord | US, EU, UK, AU | US, EU | Not Included | CN |
| Operating System | Windows® 10 Home | | Not Included | |
| What's Needed | — | — | 22x42 or 22x80 M.2 SSD and/or 2.5" SATA HDD/SSD, Operating System, Power Cord | Operating System |



INTEL® NUC MAINSTREAM-G MINI PCS AND KITS

Additional Technical Specifications

Peripheral Connectivity

- Intel® Gigabit LAN port
- Front: USB3.1 Gen 2 Type-A port, USB3.1 Gen 2 Type-C port
- Rear: two USB 3.1 Gen 2 Type-A ports
- Intel® Dual Band Wireless-AC 9560 (802.11ac), 2x2, up to 1.73 Gbps
- Bluetooth® v5

Hardware Management Features

- Processor fan speed control
- Voltage and temperature sensing
- Fan sensor inputs used to monitor fan activity
- ACPI-compliant power management control

Expansion Capabilities

- Two Internal USB 2.0 ports via two 1x4 headers (for replaceable lid support)
- One Consumer Electronics Control header

Audio

- Up to 7.1 surround audio via HDMI* or Mini DisplayPort
- Headphone/microphone jack on the front panel

Mechanical Chassis Size

- 4.60" x 4.40" x 2.01"
- 117 mm x 112 mm x 51 mm

Baseboard Power Requirements

- 19V, 90W power brick

Environment Operating Temperature

- 0° C to +40° C

Storage Temperature

- -20° C to +40° C

Safety Regulations and Standards

- IEC/EN/UL 60950-1
- IEC/EN/UL 62368-1

EMC/RF Regulations and Standards

- FCC Part 15B/15C/15E
- CISPR/EN 55032/55024
- ICES-003
- VCCI 32
- BSMI CNS 13438
- KN 32/35
- AS/NZS CISPR 32
- EN 300 328
- EN 301 893
- EN 300 440
- EN 301 489-1/3/17
- EN 62311
- AS/NZS 4268
- AS/NZS 2772.2
- ARPANSA

Environmental Regulations

- EU RoHS
- China RoHS
- Taiwan BSMI RoHS
- REACH

Look for Intel® NUC with Intel Inside® at www.intel.com/NUC

¹ As measured by SYSmark® 2014 SE (Second Edition) Overall: Intel® Core™ i5-8265U processor, PL1= 15W TDP, 4C8T, Turbo up to 3.9GHz, Graphics: Intel® UHD Graphics 620, Memory: 2x8GB DDR4-2400, Storage: Intel® 760p SSD, OS: Microsoft Windows® 10 RS4 Build 17134.112, BIOS: X150.B00.1807031951, MCU: 0x98. Intel® Core™ i5-4200U processor, PL1=15W TDP, 2C4T, Turbo up to 2.6GHz, Graphics: HD 4000, Memory: 4GB DDR3, Storage: 512GB 545S SSD, OS: Microsoft Windows® 10 Pro Build 10.0.17134.48, BIOS: HSWLPTU1.86C.0139.R01.1801190506.MCU: 0x23 WEBXPRT® 3 Up to 1.8X better web performance with an 8th Gen Intel® Core™ i5-8265U processor vs. 5YO. Benchmark results were obtained prior to implementation of recent software patches and firmware updates intended to address exploits referred to as "Spectre" and "Meltdown". Implementation of these updates may make these results inapplicable to your device or system.

² Performance results are based on testing as of June 2018 and may not reflect all publicly available security updates. See configuration disclosure for details. No product can be absolutely secure. Software and workloads used in performance tests may have been optimized for performance only on Intel® microprocessors. Performance tests, such as SYSmark® and MobileMark®, are measured using specific computer systems, components, software, operations and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products. For more complete information visit <http://www.intel.com/benchmarks>.

³ As measured by Game Level Load Workload comparing Intel® Core™ i7-8750H processor + 1 TB HDD + 32 GB Intel® Optane™ memory vs. Intel® Core™ i7-8750H processor + 1 TB HDD.

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Actual Intel® NUC kit may differ from the image shown.

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