

Serpent Canyon

Intel® NUC 12 Enthusiast – NUC12SNKi7



Simply NUC®

Serpent Canyon i7

NUC 12 Enthusiast NUC12SNKi7

Striking Performance, Striking Size

Strike at the heart of the gaming space with the Intel NUC 12 Enthusiast Serpent Canyon. Loaded with cutting-edge gear from Intel's arsenal, Serpent is equipped to handle the latest and greatest in AAA gaming and premium VR content, thanks to its 12th Gen i7-12700H processor and hot-off-the-press Intel® Arc™ A770M Graphics. Enjoy a smoother gameplay experience with the new Intel® Thread Director directing your workloads to the best cores for each process, reserving your performance cores for more intense processes like gaming and streaming, while your efficient cores look after background processes for more fluid gameplay. Throw it in your backpack and game on the go -- simply awe striking at just 2.5 liters.

A Slick Experience

Serpent Canyon is here to help you evolve your gaming experience, with jaw-dropping immersive graphics on up to six 4K displays, paired with up to 64GB of DDR4-3200 memory and up to 24TB of

NVMe storage to maximize both the gameplay experience and your on-system storage for all of your AAA titles. Jump into the latest MMOs or your favorite online experiences with Intel® Wi-Fi 6E, giving you a slick connection, or if you prefer more rugged networking, plug directly into your router with the 2.5Gb Ethernet port, allowing uninterrupted gameplay all day long.

A New Era with Arc™

Intel's latest Arc™ A-Series Graphics unlock a new level of performance with Intel® Deep Link technology, pairing the CPU and GPU together to reap the benefits across a variety of workloads. With Xe Super Sampling you can further elevate your gaming experiences with AI-Enhanced upscaling, enabling increased output resolution while maintaining high image fidelity at the maximum workload. Intel Arc™ graphics bring about a new Era of graphics quality and performance. Unlock your gaming potential today, with Serpent Canyon.

Features

- 12th Gen Intel® Core™ i7-12700H
- Intel® Arc™ A770M Graphics
- Intel® Iris™ Xe Graphics
- Dual DDR4-3200 SO-DIMM sockets
- 2x M.2 22x80 M-key x4 PCIe supporting up to Gen4 NVMe drives (NVMe ONLY)
- 1x M.2 22x80 M-key x4 PCIe supporting up to Gen3 NVMe drives (NVMe or SATA)
- Intel® Optane™ Memory ready
- SDXC slot with UHS-II support
- Intel® Killer™ Wi-Fi 6E AX1690 + Bluetooth 5.2
- 1x Intel® 2.5Gb LAN
- 1x HDMI 2.1 TMDS
- 2x DisplayPort 2.0
- 6x USB 3.2 Gen2 Type-A
- 2x Thunderbolt™ 4
- 7.1 multichannel digital audio via HDMI or DisplayPort
- 3.5mm stereo headset jack
- 3.5mm speaker/TOSLINK combo jack
- VESA mount included
- Vertical stand included
- 19V, 330W Power Supply Included
- Customizable RGB Lighting
- User replaceable backlit logo
- Kensington Lock with base security
- Extended Service Support (1-, 3-, 5-year)



Customization

- Primary and Secondary storage each up to 8TB Gen4 NVMe
- Tertiary storage up to 8TB Gen3 NVMe or 2TB SATA 2 SSD
- Memory up to 64GB
- Replaceable RGB-Backlit lid logo
- OS options: Windows 10 Home/Pro, Ubuntu

Intel® Partner Alliance
Titanium Partner



THINK BIG, go mini

Technical Specification

Processor	Intel® 12th Gen Core™ i7-12700H up to 4.7GHz Turbo 14C/20T 24MB L3 Cache 45W TDP
Graphics	Intel® Arc™ A770M with 16GB of VRAM 5x 4K displays supported out of the box via 1x HDMI 2.1 TMDS + 2x DisplayPort 2.0 + 2x Thunderbolt 4 ports
Memory	Dual DDR4-3200 SODIMMs 1.2V 64GB Max Intel® Optane™ Memory ready
Storage	2x M.2 22x80 M-Key x4 PCIe supporting NVMe Gen4 (512GB to 4TB) and Gen3 (128GB to 8TB) 1x M.2 22x80 M-Key x4 PCIe supporting NVMe Gen3 (128GB to 8TB) and SATA SSD (128GB to 2TB) SDXC Slot with UHS-II supporting up to 2TB
Peripherals	Intel Killer™ Wi-Fi 6E AX1690 i Bluetooth 5.2 1x 2.5GB LAN (i225-LM) 6x USB 3.2 Gen2 Type-A 2x USB 3.2 Gen2 Type-C (TB4) Front Consumer Infrared port
Chassis	230mm x 180 x 60mm (~2.5L) Kensington lock with base security Replaceable RGB-Backlit lid logo Customizable RGB lighting
Expansion	2x USB 2.0 headers 1x common I/O header
Audio	3.5mm front stereo headset jack 3.5mm rear speaker / TOSLINK combo jack 7.1 multichannel digital audio via HDMI or DisplayPort Beam-forming, quad-mic array with Alexa support
Power	19V _{DC} , 330W Power Supply Included

Certifications and Regulations

Safety Regulations and Standards	IEC/EN/UL 60950-1 IEC/EN/UL 62368-1
EMC/RF Regulations & Standards	FCC Part 15B/15C/15E CISPR/EN 55032/55035 ICES-0003 VCCI CISPR 32 BSMI CNS 13438 KS C 9832/9835 AS/NZS CISPR 32 EN 300 328 EN 301 893 EN 300 440 EN 301 489-1/17 EN 62311 AS/NZS 4268 AS/NZS 2772.2 ARPANSA
Environmental Regulations	EU RoHS China RoHS Taiwan BSMI RoHS REACH
Certified Operating Systems	Windows 10 64-bit (Pro and Home) Linux (Ubuntu)
Environmental Operating Temp etc.	0°C to +40°C Non-Condensing Humidity