

Topaz i7 – Intel® Core i7-1165G7

High Speed Performance

Featuring the new 11th Gen Intel Core mobile processor with Xe graphics, and support for high-speed 3200MHz DDR4 memory, Topaz is a new performance-driven small form factor PC. At home, stream 4K video, play games, or finish your homework. At work, Topaz keeps you productive -- perfect for content creation, multitasking, and video conferencing. The Tiger Lake-based processors and high-speed memory remove bottlenecks keeping you on task or helping you relax while tucked behind a TV or monitor via the included VESA plate.

Feature Rich for Versatility

Topaz supports up to four displays simultaneously, with up to 4K resolution at 60Hz for each monitor. Intel Dual ethernet with 2.5Gbps and 1Gbps speeds allow you to connect to multiple networks. Topaz also features TPM for sensitive communications where encryption is required.

Take advantage of Intel® Wi-Fi 6 (802.11ax) with high-speed connectivity enhanced for efficient bandwidth usage in environments with many connected devices. Topaz has ample accommodation for all your peripheral devices with four front 10Gbps SuperSpeed USB ports plus two rear Hi-Speed USB Type-A ports. And if six USB ports is not enough, add a functional lid to your configuration for more I/O connections.

Efficiency by Design

Topaz, built on Intel 11th Gen architecture, provides greater system performance over previous generations with advanced hyperthreading technologies driving faster speeds and enhanced graphics. Cloud computing, immersive gaming, and streaming all demand increasing computing performance with optimal energy efficiency. From the very beginning, Intel engineers designed their "Tiger Lake" core to meet those demands with more core throughput, larger caches, and powerful multi-threading capabilities.

Highlighted features

- Intel® Core i7-1165G7 CPU
- Intel® Iris® Xe Graphics
- Two DDR4-3200 SO-DIMM Sockets
- M.2 Slot Supports PCIe Gen4 or SATA SSDs
- Secondary M.2 Slot Supports SATA SSDs
- DisplayPort 1.4 (4K@60Hz)
- HDMI 2.0a (4K@60Hz)
- Two DisplayPorts 1.4 via USB-C ports
- Dual Ethernet:
 - 1x 10/100/1000/2500 Mbps;
 - 1x 10/100/1000 Mbps
- Intel® Wi-Fi 6
- Intel® Bluetooth 5.1
- Four USB 3.2 Gen 1 Type-A Ports
- Two USB 3.2 Gen 2 Type-C Ports
- Audio Combo Mic In / Line Out
- TPM Down (Infineon 2.0)
- 19VDC 90W Power Supply Adapter
- Kensington Lock Slot
- VESA Mount Kit Included
- Extended Support Service (1-, 3-yr)

Customization

- Supports DDR4 RAM 4GB-64GB
- Supports Primary M.2 Gen4 PCIe and SATA SSD 128GB-8TB
- Supports Secondary M.2 SATA SSD 128GB-2TB
- Replaceable Lid
- DIN or VESA Mountable



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"> Intel® Core i7-1165G7 Processor (12M Cache, up to 4.70GHz, with Intel® Iris® Xe Graphics) 	<p>Graphics</p> <ul style="list-style-type: none"> Intel® Iris® Xe Graphics, up to 1.3GHz DisplayPort 1.4 (Supports up to 4k @60Hz) One HDMI 2.0a port (Supports up to 4k @60Hz) Two USB Type-C Ports with DisplayPort 1.4 (Supports up to 4k @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"> M.2 Socket Supporting 22x80 M.2 SSDs, SATA or Gen4 PCIe, 8TB Max Secondary M.2 Socket Supporting 22x80 M.2 SSDs, SATA, 2TB Max 	<p>Peripheral Connectivity</p> <ul style="list-style-type: none"> 10/100/1000/2500 Mbps 10/100/1000 Mbps RJ45 Ethernet Four USB 3.2 Gen 2 Type-A Ports Two USB 3.2 Gen 2 Type-C Ports One HDMI 2.0a Port One DisplayPort 1.4 Intel® Wi-Fi 6 AX200 (802.11ax) with Bluetooth 5.1 	<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>Audio</p> <ul style="list-style-type: none"> Up to 7.1 Surround via HDMI Front Audio: Mic In Line Out 	<p>Baseboard Power Requirements</p> <ul style="list-style-type: none"> 19V, 90W AC-DC Power Adapter with Detachable Power Cord 	<p>Expansion Capabilities</p> <ul style="list-style-type: none"> M.2 socket for SATA Drive Replacable Lid

Certification and Regulations

<p>Product Safety Regulations and Standards</p> <ul style="list-style-type: none"> IEC 60950-1 UL 60950-1 EN 60950-1 CAN/CSA-C22.2 No. 60950-1 	<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 EN 55052 EN 55024 CISPR 32 ICES-003 ETSI EN 300 328 ETSI EN.301 489-1 ETSI EN.301 893 EN 62511 	<p>Environmental Regulations</p> <ul style="list-style-type: none"> RoHS Directive 2011/65/EU WEEE Directive 2012/19/EU
<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 Pro Home, IoT Linux (Fedora)