NUC9vXTD - Intel® Xeon® Workstation

Compact Workstation, Full-Sized Workhorse

Designed as the smallest workstation available that supports a full-length graphic card, Trident gives you unsurpassed performance. Housed in a ultra compact 7.9-liter powder coated steel chassis, and available with the Intel Xeon® processor with Intel® vPro™ technology. The 650W internal Cooler Master SFX power supply is specifically designed to power the chassis, GPU, and the Intel NUC 9 Pro Compute Element Blade. Whether you're using AutoCAD to design a new building or running a financial quantitative analysis, Trident makes graphically demanding tasks easy.

9th Generation Processing Power

Trident features an Intel® Xeon® processor, and support for up to 64 GB of high speed DDR4 ECC RAM, you have more CPU power than ever in a NUC form factor. Combine this with desktop discrete graphics, Thunderbolt™ 3, DisplayPort, and

HDMI capability for your optimal workstation experience in impressively tiny form factor. To keep this power cool, twin 92mm fans immediately remove heat from the system further improving thermal efficiency. Heavy ventilation flanks all sides of the chassis, increasing ventilation.

Render Your Toughest Tasks with Ease

Trident has room for your latest desktop graphics, two Thunderbolt™ 3 ports for fast data transfer, ready to handle content creation tasks, data visualization, and AI learning and inference. Rest assured knowing that this workstation has been qualified for 24/7 operation, supports ECC memory to prevent data corruption, and is tested with more than 20 professional applications. With Xeon® Intel® vPro™ technology, issues can be fixed whether you're in the office or working remote. Intended usages include CAD design, financial analysis, medical imaging, real-time simulations, and commercial quality post-production.

Highlighted features
- Intel® Xeon® E-2286M Compute Element
- Intel® vPro™ Technology
- Intel® UHD Graphics P630
- PCIe x16
- Two DDR4 SO-DIMM Sockets
- Two M.2 sockets for PCIe or SATA SSDs
- Intel® Optane™ SSD, Memory M10 and Memory H10 ready
- HDMI 2.0 supporting 4K @ 60Hz
- Dual Thunderbolt 3 (supports Alt-DP)
- Dual Intel® Gigabit LAN
- Intel® Wi-Fi 6
- Intel® Bluetooth 5
- Internal Dual-Band Antennas
- Six USB 3.1 Gen 2 Ports (10Gb/s)
- Digital Audio 7.1 Surround Sound
- Front 3.5mm headset jack
- Rear Speaker/TOSLink Combo Jack
- Kensington lock support
- A-RGB LED lighting
- 2 x 92mm PWM 2600RPM cooling fans
- 370 x 214 x 128 mm (7.9 L)
- 650W internal Cooler Master PSU

Customization
- Supports DDR4 RAM 4GB-64GB (ECC RAM compatible)
- Supports M.2 SSDs 128GB-2TB
- Supports Full-Length Graphics Cards
- Swappable Compute Element Blade

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

Processor
- Intel® Xeon® E-2286M Processor (2.4GHz – 5.0GHz Turbo, Eight Core, 16MB Cache, 45W)

Storage Capabilities
- Two M.2 key M slots, one 42/80 slot and two 42/80/110 slots
- M.2 supports both PCIe and SATA
- RAID 0 and RAID 1 capable

Audio
- Up to 7.1 surround audio via HDMI or Display-Port signals
- Stereo Headset jack (TRRS) on the front panel
- Combo 3.5mm speaker/TOSLink optical audio jack on rear panel

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

Graphics
- Intel® UHD Graphics P630 (350MHz-1.25GHz)
- One HDMI 2.0 port (4K @ 60Hz)
- Two Thunderbolt™ 3 ports supporting DP 1.4
- Up to 3 displays at 4K resolution
- PCIe x16 slot supports full-length, double-width graphics cards

Peripheral Connectivity
- Two Intel® Gigabit LAN ports (i219-LM and i210-AT)
- Two front Super-Speed USB 3.1 Gen 2 on Type-A connectors
- Four rear Super-Speed USB 3.1 Gen 2 ports on Type-A connectors
- Two rear USB 3.1 Gen 2 ports on Type-C connectors
- Intel® Wi-Fi 6 AX200 2.4Gbps with internal antenna
- Intel® Bluetooth 5.0 with internal antenna
- PCIe x16 slot

Front Panel Header
- Reset, HDD LED, Power LEDs, power on/off

System Memory
- Dual Channel DDR4 ECC SO-DIMMs (64GB Max)
- Intel® Optane™ ready

System Bios
- 64 Mb Flash EEPROM with Intel® Platform Innovation Framework for EFI Plug and Play
- Advanced configuration and power interface V3.0b, SMBIOS2.5
- Intel® Visual BIOS
- Intel® Express BIOS update support

Preinstalled Lighting Support
- 1 ARGB lighting strip
- 1 ARGB controller included

Mechanical Chassis Size
- 370 x 214 x 128 mm (7.9 L)
- 650W internal Cooler Master PSU

Fan Support
- Dual 92mm PWM 2600RPM cooling fans

Expansion Capabilities (under Lid)
- Internal dual USB 3.1 headers
- Internal dual USB 2.0 headers
- Internal front panel audio and CEC
- SATA power connector

Certification and Regulations

Product Safety Regulations and Standards
- IEC 60950-1
- UL 60950-1
- EN 60950-1
- CAN/CSA-C22.2 No. 60950-1

Environment Operating Temp
- 0° C to +40° C
- Non-condensing Humidity

Storage Temperature
- -20° C to +60° C

EMC/RF Regulations and Standards (Class B)
- FCC CFR Title 47, Chapter I, Part 15, Subparts A, B, C, E
- CISPR 22
- ICES-003
- EN 55022
- EN 55024
- ETSI EN 300 328
- ETSI EN 301 489-1
- ETSI EN 301 489-17
- ETSI EN 301 893
- EN 62311
- AS/NZS 2772.2
- AS/NZS 4268
- VCCI V-3, V-4
- KN-22
- KN-24
- CNS 13438

Environmental Regulations
- RoHS Directive 2011/65/EU
- WEEE Directive 2012/19/EU
- China RoHS

Certified Operating Systems
- Windows 10 64-bit (Pro & Home)
- Windows 10 IoT Enterprise - (64-bit only) CBB and LTSB
- Windows 10 Server
- Linux distributions