Shuttle®

PRELIMINARY SPECIFICATIONS

NT10H Series

NANO PC

PROCESSOR	Intel Ultra 5 125H (TDP 28W), Intel Ultra 7 155H (TDP 28W), Intel Ultra 9 185H (TDP 45W)	
MEMORY	2 x 262 pin DDR5 SODIMM slots, 32 GB per DIMM (Max 64 GB), DDR5 up to 5600 Mhz	
VIDEO GRAPHICS	Intel® Arc™ Graphics (features depends on processor)	
VIDEO OUTPUT	HDMI x 2, DisplayPort (Type-C) x 2, supports quadruple video outputs	
AUDIO	RealTek ALC269-VC3	
ETHERNET	Built-in RealTek ALC269-VC3 10/100/1000/2500 Mbps supported	M.2 2230 E key slot for Wi-Fi 6E and Bluetooth 5.3 Dual 2.5 GbE LAN
STORAGE INTERFACE	M.2 2280 M key NVMe SSD (PCIe Gen 4 x4) up to 2 TB	
FRONT PANEL	(1) Power Button (1) Power LED	(4) USB 3.2 Gen 2 (1) 3.5 mm headphone + MIC in combo jack
BACK/SIDE PANEL	(2) USB 4.0 Type-C (w/ DisplayPort 1.4) (2) HDMI 2.0 (1) USB 2.0 (1) USB 3.2 Gen 2 (1) Kensington Lock	(2) RJ45 LAN port (1) DC-in jack (1) SD Card Reader
DIMENSIONS	5.6(L) x 5.2(W) x 2.16(H) inches	
POWER	Input: 100 - 240V AC, 120W Power Adapter Output: 19V, 6.32A	
OPERATING TEMPERATURE	0°C - 40°C	
ACCESSORIES	Quick Guide Power adapter Power cord	VESA mount VESA mount screws M.2 SSD thermal KIT pack
EXPANSION SLOT	M.2 2230 E key, M.2 2280 M key (w/ PCIe Gen4)	
OS SUPPORT	Windows 11, Linux 64 bit	
CERTIFICATION	BSMI, CB, CE, CEC, ERP LOT3, FCC, RCM, RoHS compliance, UKCA, UL, VCCI	

BIOS DOWNLOADS: https://global.shuttle.com/products/productsDownload?pn=NT10H
SUPPORT LIST: https://global.shuttle.com/products/productsSupportList?pn=NT10H
FAQ LIST: http://global.shuttle.com/support/faq
PRODUCT WARRANTY: https://www.shuttlecomputers.com/warrantypolicies

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CHASSIS	Black slim type metal chassis Kensington lock hole on side Dimensions: 5.2 (L) x 5.6 (W) x 2.16 (H) inches Weight: 1.76 LBS (net) / 3.75 LBS (gross)
POWER SUPPLY	External 120W power adapter (fanless) AC input voltage: 100 - 240V, 50 - 60 Hz, max 1.4A Output: 19V DC 6.32A, max 120W
OPERATING SYSTEM	The system comes without an operating system installed. Compatibility: Windows 11, Linux 64 bit Windows 11 drivers download can be found on global site
PROCESSOR SUPPORT	Intel Ultra 5 125H, Intel Ultra 7 155H, Intel Ultra 9 185H, TDP 28W options 7 nm structure, Intel 4 process platform CPU cores/threads: 4/8, Smart Cache (L3): 18 MB CPU clock frequency: 1.2 - 4.5 GHz Configurable Power (cTDP): 20W, 28W, 54W [1]* NPU AI performance: 11.5 TOPS (NPU+CPU+iGPU: 34 TOPS) [2]* System on chip processor (SoC) with integrated graphics processor
COOLING	Heat-pipe cooling system with dual fan concept for optimal airflow: 1) Processor fan 80 mm 2) Chassis fan (bottom) 60 mm Supports temperature-controlled RPM fan speed [1]*
MEMORY SUPPORT	2 x 262 pin SODIMM slots Supports Dual Channel mode Supports DDR5 5600 MHz SDRAM at 1.1V Supports a max. of 32GB per DIMM, up to 64GB max Supports two unbuffered DIMM module (no ECC or registered)
M.2 SSD SLOT	M.2 2280M slot for SSD cards in M.2 form: PCI-Express Gen 4.0 X4 with NVMe (no SATA) Supports M.2 cards with a width of 22 mm and a length of 80 mm Supports M.2 cards with M key or B+M key
SD CARD READER	Supports SD cards (24 x 32 mm size) Supports Micro SD card with appropriate adapter (not included)
AUDIO	Realtek ALC269-VC3 audio controller 3.5 mm/ 4-pole combo audio connector (Line-out and MIC combo) Compatible with headphones/headsets with 3– or 4-pole jack plug [3]* Digital multi-channel audio output: via HDMI and DisplayPort (USB-C)
WIRED NETWORK	RJ45 connector supports Gigabit LAN at 10/100/1000/2500 Mb/s Supports Wake on LAN Intel i226V ethernet controller Supports network boot by Preboot eXecution Environment (PXE)
WIRELESS NETWORK	M.2 2230 slot, Two pre-installed internal WLAN antennas (I-PEX4/MHF-IV connectors) PCI-Express X1 and USB 2.0 Supports M.2 cards with a width of 22 mm and a length of 30 mm (Type 2230)
INTEGRATED GRAPHICS	Intel® Arc™ graphics engine supports Quad 4K Graphics Max Dynamic Frequency: 2.2 GHz Xe-cores: 7 This model supports up to four independent screens with up to 4K/60 Hz (Ultra HD 3840x2160 resolution): -2 x HDMI (supports up to HDMI 2.0b) -2 x USB4 Type-C with DisplayPort 1.4 function
H/W TPM FUNCTION	Hardware TPM function supports DTPM 2.0 The TPM function can be deactivated in the BIOS setup

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FRONT PANEL CONNECTORS	USB 3.2 Gen 2 type A x 4 (left USB port supports USB power in S5/off mode) Audio combo port (3.5 mm jack, 4-pole) [3]*	Power Button Power indicator (Blue LED)
BACK PANEL CONNECTORS	USB4 Type-C x 2 (w/ DisplayPort 1.4 function and Power Delivery max 5V/3A) USB 3.2 Gen 2 Type A x 1 USB 2.0 x 1	HDMI 2.0 x 2 2.5GbE LAN port x 2 DC-input connector for external power adapter
INCLUDED ACCESSORIES	Quick installation guide Heat sink with two thermal pads for M.2 SSD External 120W power adapter	VESA mount (75/100mm standard w/ screws) Driver download can be found on global site
ENVIRONMENTAL CRITERIA	Operating temperature: 0 - 40°C	Humidity: 10 - 90% (non-condensing)
CERTIFICATIONS	EMI: CE. FCC. BSMI Safety: CB IEC60950/62368, cTUVus, BSMI	Other: RoHS, Energy Star, ErP
	This model is classed as a technical information equipment (ITE) in class B and is intended for use in living rooms and offices. The CE mark approves conformity by the EU directives: (1) 2004/108/EC relating to electromagnetic compatibility (EMC) (2) 2006/95/EC relating to Electrical Equipment designed for use within certain voltage limits (LVD) (3) 2009/125/EC relating to eco-design requirements for energy related products (ErP)	

[1] CONFIGURABLE FAN SPEED AND POWER CONSUMPTION OF THE PROCESSOR

On the BIOS setup, a “Fan Mode” option on the “Advanced” page configures the fan control, affecting the maximum power consumption of the processor. The default setting “Normal Mode” offers a balance between performance, temperature, and fan speed. The “Fan Mode” setting also defines the upper limits for the average power dissipation (cTDP) and short-term power dissipation in turbo mode (Turbo TDP):

Fan Mode Setting	CPU Performance	Fan Speed	cTDP	Turbo TDP
Performance Mode	Maximum	High	54W	70W
Normal Mode	High	Medium	28W	54W
Silent Mode	Medium	Low	20W	45W

[2] AI PERFORMANCE

Processors with the support of artificial intelligence (AI) and machine learning (ML) can process many calculations much faster than classic processors. AI performance is given in the number (trillions) of arithmetic operations per second (TOPS). The processor in this model integrates Intel® AI Boost NPU with 11.5 TOPS performance, the total AI performance (platform TOPS) is a measure of the total performance of all the processing units in the processor (CPU, NPC, GPU).

[3] AUDIO CONNECTOR

The 3.5 mm audio jack supports headphones with a 3-pole connector or headsets with a microphone with a 4-pole connector. Headsets with a separate connector for microphone will require an appropriate adapter if the microphone should be used.

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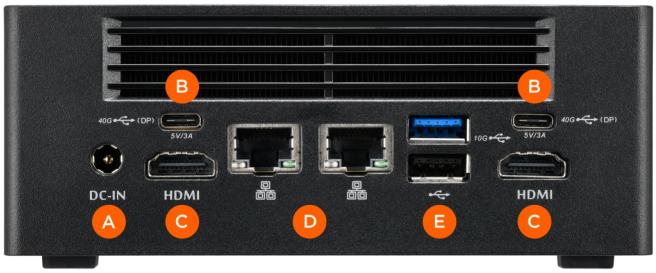
Front View

1 USB 3.2 Gen 2 Type A x 4

2 Headphone + MIC combo

3 Power Button

Back View



A DC power input

B USB 4.0 (Type-C) x 2
(w/ DisplayPort/Power Delivery)

C HDMI 2.0 x 2

D Dual 2.5 GbE LAN

E USB 3.2 Gen 2 x 1 (top)
USB 2.0 (bottom)

SD Card Reader and Kensington Lock hole on the side

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AI-POWERED PERFORMANCE WITH INTEL® CORE™ ULTRA

Powered by Intel® Core™ Ultra (Meteor Lake) processors, incorporating a 3D performance hybrid architecture, integrating NPU for AI acceleration and built-in Intel® Arc™ GPU. With support for up to 64GB DDR5-5600 MHz memory, it enhances multitasking capabilities, AI processing, and graphic experience, making it ideal for content creation productivity and AI workload tasks.

QUAD DISPLAY SUPPORT

From eye-catching digital signage to immersive workspaces, this compact powerhouse drives up to four 4K displays, enabling seamless multi-screen setups and impressive TV wall configurations. Intel® Arc™ technology allows the NT10H to effortlessly handle a wide range of graphics-intensive tasks from 3D rendering and video editing to advanced content creation.

SEAMLESS DATA FLOW

The NT10H's advanced connectivity options are designed for high-bandwidth demands, ensuring low-latency data processing for edge computing and enabling rapid data transmission for split-second decision-making.

COMPACT VERSATILITY

A space saving design with flexible mounting and robust adaptability provides 24/7 reliability for any environment.

ADVANCED COOLING

Thermal management with a heat pipe cooling system and fans ensures peak performance under intense workloads, ideal for surveillance systems, data centers, and content creation.

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