

SYSTEM

XPC nano fanless

NE1010XA

Intel N100, 8 GB RAM, 250 GB SSD, no OS

AFFORDABLE NANO-PC WITH ENHANCED PERFORMANCE

The Shuttle NE1010XA is a fully configured PC system in Nano form factor based on Shuttle's fanless Barebone NE10N with RAM and SSD memory, but without operation system. It comes with a powerful and efficient 12th generation Intel N100 processor, codenamed "Alder Lake-N". Despite the nano format with only 600 ml volume, it offers enormous connection variety and expansion options. Thus, up to two UHD displays (4K/60Hz) and up to six USB devices can be connected. This PC system is ideal for Digital Signage, POS, control, office or even multimedia.



INTEL N100
SoC CPU



DUAL DISPLAY
SUPPORT



HDMI 2.0



DISPLAY-
PORT 1.4



250 GB
M.2 SSD



8 GB
RAM



6x USB



1 Gbps
LAN PORT



Wi-Fi 6
WLAN



VESA MOUNT



FANLESS



24 / 7
OPERATING

NANO DESIGN

- Slim plastic chassis, black ■ Dimensions: 135 x 115 x 39 mm (LWH), height: 41.3 mm incl. rubber feet, volume: 606 ml ■ Weight: 0.6 kg net, 1.5 kg gross ■ Including VESA mount (supports 75x75 / 100x100 mm)
- Operating temperature: 0~40 °C (non-condensing)

OPERATING SYSTEM

- An operating system is not included
- Supports Windows 11 (64-bit)

Please download Windows drivers from <https://go.shuttle.eu/NE10N>

PROCESSOR

- Intel N100, TDP: 6 W, Turbo Clock max. 3.4 GHz
- 12th generation Intel Core, code name "Alder Lake-N"
- Soldered SoC, Intel 7 process (10 nm)
- Passive fanless cooling system – virtually noiseless

GRAPHICS

- Integrated Intel UHD graphics
- Supports two independent Ultra-HD displays at 60 Hz

RAM-& SSD

- 8 GB DDR4-3200 SO-DIMM
- 250 GB M.2-2280 SSD (SATA)

CONNECTORS

- HDMI 2.0 ■ DisplayPort 1.4 ■ 4x USB 3.2 Gen2 (max. 10 Gbps)
- 2x USB 2.0 ■ 1x Gigabit LAN (Motorcomm YT6801) ■ 2x Audio (Microphone-in + Line-out) ■ DC input 19 V

POWER SUPPLY

- External 65W / 19V power adapter

OTHER

- Intel AX200 WLAN module supports Wi-Fi 6 and BT 5.2
- Hardware TPM-Chip: Infineon SLB9670VQ2.0



MODELS OF THE NE10N SERIES

Category	Product	Intel Processor	RAM	M.2 SSD	WLAN	Operating System	UPC / EAN Bar Code
Barebone	NE10N	Intel N100	—	—	—	—	887993007779
System without OS	NE1010XA	Intel N100	8 GB	250 GB	Intel AX200	—	4046047104413
System with OS	NE1010BA	Intel N100	8 GB	128 GB	Intel AX200	Win 11 Pro Entry	4046047104406

Product Views

Front View



Rear View



Left Side



Right Side



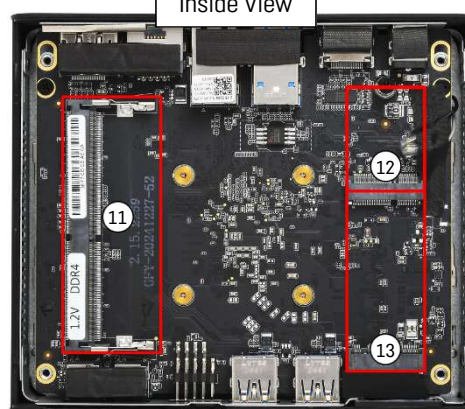
VESA-Mounting



1. Power Button with LED
2. 2x USB 3.2 Gen 2 Port (max. 10 Gbps)
3. Microphone input
4. Headphones output

5. DisplayPort 1.4 audio/video output
6. RJ45 Gigabit LAN port
7. 2x USB 2.0
8. 2x USB 3.2 Gen 2 Port (max. 10 Gbps)
9. HDMI 2.0 port audio/video output
10. DC-input for 19V power adapter

Inside View



11. SO-DIMM memory slot for DDR4 RAM
12. M.2-2230 slot for WLAN card
13. M.2-2280 slot for SSD card

14. Hole for the Kensington Lock (the lock with cable is not included)
15. VESA mount

Product Comparison: Shuttle Nano Barebone Series (≤ 1 Litre)

Shuttle Product	NE10N	NC40U Series	NT10H Series	NA10H7
Category	<i>Entry Level, Fanless</i>	<i>Entry Level, with Fan</i>	<i>AI-PC with NPU (Intel)</i>	<i>AI-PC with NPU (AMD)</i>
CPU Generation (Code Name)	Intel Alder Lake-N (Gen. 12)	Intel Alder Lake-U (Gen. 12)	Intel Meteor Lake-H	AMD Hawk Point (Zen 4)
Product Models (Processor)	NE10N: N100	NC40U: Celeron 7305 NC40U3: Core i3-1215U NC40U5: Core i5-1235U NC40U7: Core i7-1255U	NT10H5: Core Ultra 5-125H NT10H9: Core Ultra 9-185H	NA10H7: Ryzen 7-8845HS
Cooling System	Fanless / Heat-pipe	With fan	With fan	With fan
NPU and AI Performance	—	—	NPU: 11.5 TOPS Overall: 34 TOPS	NPU: 16 TOPS Overall: 39 TOPS
OS Support	Windows 11	Windows 10/11 and Linux	Windows 11 and Linux	Windows 11 and Linux
RAM Support	max. 1x 16 GB DDR4-2400 SO-DIMM	max. 2x 32 GB DDR4-2400 SO-DIMM	max. 2x 48 GB DDR5-5600 SO-DIMM	max. 2x 48 GB DDR5-5600 SO-DIMM
2.5" HDD Bay	—	1x 2.5" bay (up to 15 mm)	—	—
M.2 SSD Slots	1x M.2-2280 Slot	2x M.2-2280 Slot (RAID-Support)	1x M.2-2280 Slot	1x M.2-2280 Slot
Card Reader	—	—	Yes	Yes
Graphics Ports	1x HDMI 2.0 1x DisplayPort 1.4 supports 2 UHD Displays	HDMI 2.0b DisplayPort 1.4a USB-C supports DP 1.4a supports 3 UHD Displays	2x HDMI 2.0 2x DisplayPort 1.4 (USB-C) supports 4 UHD Displays	2x HDMI 2.0 2x DisplayPort 1.4 (USB-C) supports 4 UHD Displays
LAN Ports (Chip)	1x 1.0 Gbit/s (Motorcomm YT6801)	1x 1.0 Gbit/s (Intel i219)	2x 2.5 Gbit/s (Intel 226V)	2x 2.5 Gbit/s (Realtek RTL8125B)
USB Ports	4x USB 3.2 Gen2 2x USB 2.0	2x USB 3.2 Gen2 5x USB 3.2 Gen1 (1x Type-C)	2x USB4 Type-C (DP 1.4, 3A) 5x USB 3.2 Gen2, 1x USB 2.0	2x USB4 Type-C (DP 1.4, 3A) 5x USB 3.2 Gen2, 1x USB 2.0
WLAN	— (pre-installed antennas)	— (pre-installed antennas)	— (pre-installed antennas)	— (pre-installed antennas)
Power Adapter	65 W	65 W	120 W	120 W
Mounting	VESA Mount	VESA Mount and Stand	VESA Mount	VESA Mount
Dimensions (LWH)	135 x 115 x 39 mm = 0.6 L	142 x 142 x 42 mm = 0.85 L	132 x 143 x 55 mm = 1.0 L	132 x 143 x 55 mm = 1.0 L
Operating Temp.	0 — 40 °C	0 — 40 °C	0 — 40 °C	0 — 40 °C
Front View				
Rear View				

SHUTTLE XPC nano SYSTEM NE1010XA — SPECIFICATIONS

FANLESS & SILENT	Completely fanless, virtually noiseless Passive cooling through convective heat transfer Perfect to be used in noise-sensitive environments Fanless means less dust and thus virtually no maintenance required
24/7 NONSTOP OPERATION	24/7 Nonstop Operation This device is approved for 24/7 permanent operation. Requirements: - Free air circulation around the PC must be guaranteed. - Ventilation holes must be kept clear.
CHASSIS	Slim PC with black chassis made of plastic Dimensions: 135 x 115 x 39 mm (WLH) = 0.6-litre Height including rubber feet: 41.3 mm Weight: 0.6 kg net and 1.5 kg gross One hole for Kensington Locks (right-hand side) VESA mount included (supports 75x75 mm and 100x100 mm Standard)
OPERATION SYSTEM	This system comes without operating system. It is compatible with Windows 11 (64-bit) Windows 11 driver download: https://go.shuttle.eu/NE10N
PROCESSOR	Model: Intel® Processor N100 Max. Turbo clock frequency: 3.4 GHz Code name: "Alder Lake-N" 10 nm structure, FCBGA1338 package (soldered) CPU cores / Threads: 4 / 4 L2 Cache: 6 MB Thermal Design Power (TDP): 6 W System-on-Chip processor (SoC) with integrated graphics processor, no chipset required Passive processor cooling without fan
INTEGRATED GRAPHICS	The Graphics Processing Unit (GPU) is integrated in the processor Intel® UHD Graphics, GPU frequency: max. 750 MHz Supports DirectX 12.1, OpenGL 4.6, OpenCL 3.0, Intel Quick Sync Video Execution Units (EU): 24 Dual Display Support via two video outputs: - HDMI 2.0: max. 4096 x 2160 @ 60 Hz - DisplayPort 1.4: max. 4096 x 2160 @ 60 Hz Supports two digital UHD/4K displays simultaneously.
UEFI FIRMWARE	UEFI Firmware 32 MB Flash ROM AMI UEFI BIOS Firmware Based on the Unified Extensible Firmware Interface (UEFI) Supports Power-fail-resume / AC power-on state / always-on Supports Wake-on-LAN (WOL) from S3, S4, S5 ACPI states Supports boot up from external flash memory cards CMOS battery (type CR2032 with connecting cable)
HARDWARE TPM	Supports DTPM 2.0 with Infineon SLB9670VQ2.0 (can be deactivated)
MEMORY (RAM)	8 GB DDR4-3200 (PC4-25600U) SDRAM at 1.2V with SO-DIMM form factor Supports one RAM module with max. 16 GB capacity
SSD CARD	250 GB M.2-2280 SSD card with SATA interface
WLAN	Intel AX200.NG.WG.NV WLAN card in M.2-2230 form factor Supports Wi-Fi 6 (IEEE 802.11ax, 2.4/5 GHz band, 2T2R) Supports Bluetooth 5.2 Two internal WLAN antennas
AUDIO	Senary SN6140-CNZR audio controller Two analog audio connectors (3.5 mm): 1) Line out (head-phones) 2) Microphone input Digital multi-channel audio output: via HDMI and DisplayPort

GIGABIT LAN	One RJ45 connector supports lokal network at 10/100/1000 Mbps. Motorcomm YT6801 Ethernet LAN controller Supports Wake-on-LAN
FRONT PANEL CONNECTORS	Power button Power LED (blue = power-on, orange = S3 mode) 2x USB 3.2 Gen 2 Type A (blue, max. 10 Gbps) Audio Line-Out (headphones) 3.5 mm Microphone Input 3.5 mm
BACK PANEL CONNECTORS	HDMI 2.0 Video/Audio DisplayPort 1.4 Video/Audio 2x USB 3.2 Gen 2 Type A (blue, max. 10 Gbps) 2x USB 2.0 (black) 1x Gigabit Ethernet LAN (1 Gbps, RJ45) DC input for the external power adapter (supports 19V)
POWER SUPPLY	External 65 W AC/DC power adapter (fanless) AC Input: 100 ~ 240 V AC, 50 ~ 60 Hz, max. 1.5 A Automatic AC voltage adjust DC Output: 19 V, max. 3.42 A, max. 65 W DC Connector: 5.5 / 2.5 mm (outer/inner diameter) AC cable with 3-pin Micky MM C6 and Schuko earthed safety plug
SUPPLIED ACCESSORIES	Multi-language user guide (EN, DE, FR, ES, JP, KR, SC, TC) VESA mount for 75 / 100 mm standard (black) Two flat-head screws, M3 x 3.5 mm with offset (connects VESA mount to PC) Four screws M4 x 6 mm (to affix VESA mount on the PC) External 65 W power adapter with power cord (with protective-earth contacts) A DVD driver disk is not supplied. Windows 11 driver download: https://go.shuttle.eu/NE10N
ENVIRONMENTAL SPECIFICATIONS	Operating temperature range: 0 ~ 40 °C Relative humidity range: 10 ~ 90 % (non-condensing)
CERTIFICATIONS / COMPLIANCE	EMI: CE, UKCA, FCC, RCM, VCCI, BSMI Safety: CB IEC 60950-1/62368-1, cTUVus (UL 62368-1), BSMI Other: RoHS, Energy Star, ErP This device is classed as a technical information equipment (ITE) in class B and is intended for use in living room and office. The CE-mark approves the 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 ecodesign requirements for energy-related products (ErP)