Shuttle

PRODUCT SPECIFICATIONS

SYSTEM XPC nano :4(Intel Celeron 7305, Windows 11 Pro

MANY PORTS AND HIGH PERFORMANCE IN NANO-FORMAT NC4010BA is a fully configured PC system in Nano-size with Windows 11 Pro operating system. It comes a with powerful and efficient 12th generation Intel ULV processor. Despite the small size with only 850 ml volume, it offers enormous connection variety and expansion options. Thus, up to three UHD displays (4K/60Hz) and up to seven USB 3.2 devices can be connected. This PC is ideal for Digital Signage, POS, control, office or even multimedia.







4 GR RAM

128 GB SSD



SUPPORT



১১-৫ USB-C WITH 6x USB 3.2 DISPLAYPORT TYPE-A PORTS

INTEL LAN Supports second M.2 SSD

. 1 2.5" HDD/SSD SUPPORT

VESA MOUNT



JUMPER JP1

VERTICAL

STAND

NANO DESIGN

■ Slim plastic chassis, black ■ Dimensions: 242 x 242 x 42 mm (LWH), 850 ml ■ Including vertical Stand and VESA mount (75/100 mm) ■ Operating temperature: 0~40 °C (non-condensing)

OPERATING SYSTEM

■ Windows 11 Pro Entry (64-Bit)

PROCESSOR

- Intel Celeron 7305, 1x P-Core, 4x E-Core, 48 Execution Units
- 12th generation Intel Core, code name "Alder Lake-U"
- Soldered SoC with 15 W TDP, Intel 7 process (10 nm)

GRAPHICS

■ Integrated Intel UHD graphics (features depend on processor) Supports three independent Ultra-HD displays at 60 Hz

RAM/STORAGE

PORT

- 4 GB DDR4-3200 SO-DIMM RAM module
- 128 GB M.2 SSD card supports PCIe/NVMe
- Supports a second M.2 SSD card
- 2.5" bay supports one SATA hard disk (max. 15 mm) or SSD

CONNECTORS

■ HDMI 2.0b ■ DisplayPort 1.4 ■ USB-C supports USB 3.2 Gen1 or DisplayPort 1.4 ■ 2x USB 3.2 Gen2 (max. 10 Gbps) ■ 4x USB 3.2 Gen2 (max. 5 Gbps) ■ 1x Intel Gigabit LAN (Intel 219) ■ 2x Audio (Microphone-in + Line-out) DC input 19 V

POWER SUPPLY

External 65W / 19V power adapter



MODELS OF THE NC40U SERIES

| Category | Model | Intel Processor | M.2 SSD Card | RAM memory | WLAN | Operating System | Bar Code |
|----------|----------|-----------------|-----------------|------------|---------|----------------------|---------------|
| BAREBONE | NC40U | Celeron 7305 | — | - | _ | _ | 887993005904 |
| | NC40U3 | Core i3-1215U | - | - | - | - | 887993005898 |
| | NC40U5 | Core i5-1235U | _ | - | _ | _ | 887993005881 |
| | NC40U7 | Core i7-1255U | - | - | - | - | 887993005874 |
| SYSTEM | NC4010XA | Celeron 7305 | 128GB PCIe/NVMe | 4 GB | WLAN-ax | - | 4046047104079 |
| | NC4010BA | Celeron 7305 | 128GB PCIe/NVMe | 4 GB | WLAN-ax | Windows 11 Pro Entry | 4046047104086 |





PRODUCT SPECIFICATIONS

Front and Back Panel



Shuttle Computer Handels GmbH \cdot Fritz-Strassmann-Str. 5 \cdot 25337 Elmshorn \cdot Germany Tel. +49 (0) 4121-47 68 60 \cdot Fax +49 (0) 4121-47 69 00 \cdot sales@shuttle.eu

SHUTTLE XPC nano System NC4010BA - SPECIFICATIONS

| CHASSIS | Barebone PC with a black plastic chassis Dimensions: 142 x 142 x 42 mm (LWH) = 847 ml Weight: 0.4 kg net, 1.2 kg gross Hole for Kensington Lock Includes vertical stand and 75 / 100 mm VESA mount |
|---------------------|---|
| OPERATION POSITION | 1) Horizontal 2) Vertical with stand 3) VESA-mounted behind an appropriate monitor |
| OPERATION SYSTEM | Windows 11 Pro Entry, 64-Bit |
| PROCESSOR | Model: Intel Celeron 7305 12th Generation Intel Core, code name "Alder Lake-U" System-on-a-chip architecture (SoC) with integrated memory and graphics controller FCBGA1744 package - directly soldered onto the mainboard Prozessorkerne: total 5 - Performance Cores: 1 P-Core (1 Thread) at 1.1 GHz basis clock - Efficient Cores: 4 E-Cores at 0.9 GHz basis clock Smart Cache: 8 MB TDP wattage: 15 W maximum Manufacturing process: Intel 7 (10 nm) Maximum Tjunction Temperature: 100 °C |
| COOLING FAN | Built-in CPU cooling fan with 4-pin connector Supports temperature-controlled RPM fan speed |
| INTEGRATED GRAPHICS | Intel UHD Graphics with 48 Execution Units (EU) Graphics Max Dynamic Frequency: 1.10 GHz This PC supports up to three independent screens with up to 2160@ 60 Hz (Ultra HD / 4K): 1) DisplayPort (supports DP 1.4a) 2) USB-C Port (supports DP 1.4a and USB 3.2 Gen 1) 3) HDMI-Port (supports HDMI 2.0b) |
| UEFI FIRMWARE | AMI BIOS in 32 MByte EEPROM with SPI interface Supports resume after power failure Supports Wake on LAN (WOL) Supports Power on by RTC Alarm Supports hardware monitoring and Watchdog function Supports Unified Extensible Firmware Interface (UEFI) Supports Firmware TPM v2.0 (fTPM) (Hardware TPM optional, on project request only) |
| MEMORY | 4 GB DDR4-3200 SO-DIMM memory module Supports a maximum capacity of 64 GB |
| 2.5" DRIVE BAY | Supports one Serial ATA hard disk or one SATA SSD drive in 6.35 cm / 2.5" format Device height: 15 mm (max.) Supports Serial-ATA III, 6 Gb/s (max. 600 MB/s) bandwidth Pre-installed SATA/power cable |
| M.2 SSD CARD | 128GB SSD card in M.2-2280M form factor, supports PCIe and NVMe This PC can be equipped with another M.2-2280 SSD card |
| AUDIO | C-Media CM6542 Audio Codec with USB interface Two analog audio connectors (3.5 mm) on the front side: 1) Line-out (head-phones) 2) Microphone input Digital multi-channel audio output: via HDMI and DisplayPort |
| GIGABIT LAN | Ethernet Controller Intel i219 Supports 10 / 100 / 1.000 MBit/s operation (Gigabit) Supports WAKE ON LAN (WOL) Supports network boot by Preboot eXecution Environment (PXE) |

Shuttle

PRODUCT SPECIFICATIONS

| WLAN FUNCTION | Built-in Intel WiFi-6 WLAN card with two internal antennas Model: Intel Wireless-6 AX200NGWG.NV (non vPro) Supports WiFi IEEE 802.11b/g/n/ac/ax in the 2.4 / 5 GHz band, 2T2R (2x2) Supports Bluetooth 5.2 in the 2.4 GHz band |
|---------------------------------|---|
| FRONT PANEL Connectors | 1x USB-C (supports DisplayPort 1.4a and USB 3.2 Gen 1 at max. 5 GBit/s) 2x USB 3.2 Gen 1 Type A (max. 5 GBit/s, blue) Audio line-out / headphones (3.5 mm jack plug) Microphone input (3.5 mm jack plug) Power button Power LED (blue) Hard Disk LED (orange) |
| BACK PANEL Connectors | DisplayPort 1.4a [1] HDMI 2.0b 2x USB 3.2 Gen 2 Type A (max. 10 GBps, red) 2x USB 3.2 Gen 1 Type A (max. 5 GBps, blue) Gigabit LAN (RJ45, Intel 219) DC-input connector for external power adapter (5.5 / 2.5 mm) 2x perforation (6.5 mm diameter) for optional external WLAN antennas |
| ALWAYS-ON JUMPER | By removing Jumper JP1 (please refer to the Quick Installation Guide) the system will start unconditionally once power is applied. [3] |
| CLEAR CMOS JUMPER | Short Jumper JP2 for about 10 seconds to restore factory settings of BIOS. |
| POWER SUPPLY | External 65 W power adapter (fanless) Input: 100~240 V AC, 50/60 Hz, max. 1.6 A Output: 19 V DC, max. 3.42 A, max. 65 W DC cable ca. 175 cm with coaxial connector: 5.5 / 2.5 mm (outer/inner diameter) The DC-input of the computer supports 19V±5%. AC cable, ca. 170 cm, 3-pin Micky MM C6 and Schuko earthed safety plug |
| SUPPLIED ACCESSORIES | Multi-language Quick Installation Guide Driver DVD for Windows 10/11 VESA mount set (two parts), made of steel with six screws (4x M4x10, 2x M2.5x3) Two aluminium stands (110 mm width) with four screws M3x7 for vertical operation Power adapter 65 W with AC power cord |
| ENVIRONMENTAL Specifications | Operating temperature range: 0~40 °C [2] Relative humidity range: 10~90% (non-condensing)Conformity/Certifications |
| CERTIFICATIONS / Compliance | EMI: CE, UKCA, FCC, BSMI, RCM, VCCI Safety: CB IEC60950/62368, cTUVus (UL 62368), 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) |

[1] How to convert DisplayPort into HDMI/DVI

The DisplayPort outputs can be converted to HDMI or DVI by an additional, passive adapter cable. For example:

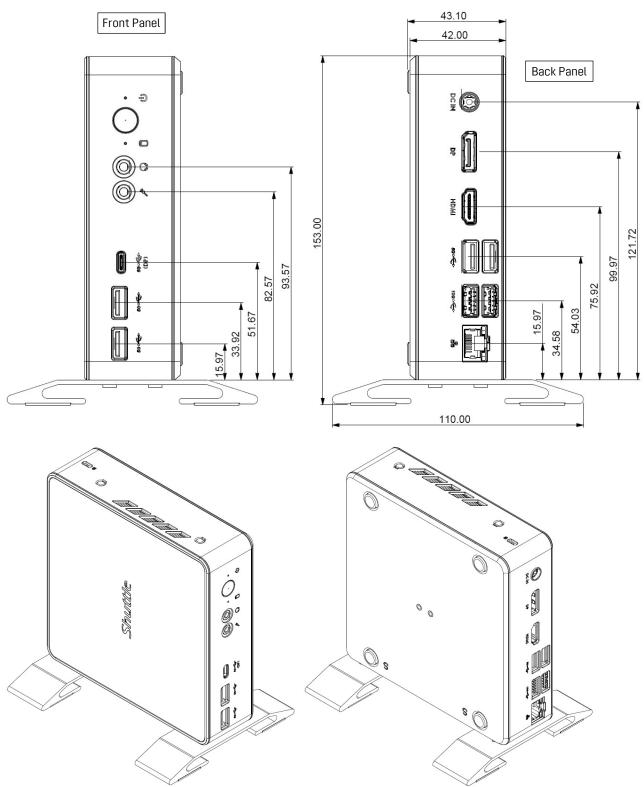
DELOCK 82590: 1 m, DisplayPort (male, 20p) to HDMI-A (male, 19p)

DELOCK 82435: 5 m, DisplayPort (male, 20p) to DVI-D (male, 24p) The integrated graphics automatically detects the connected display and puts out the appropriate electric signal - either DisplayPort (without an adapter) or HDMI/DVI (with an adapter).

[2] Caution: For high ambient temperatures over 35 °C we strongly recommend to use SSDs (supporting at least 70 °C) instead of hard disks. Ensure free circulation of air amongst the PC and ventilation holes must stay clear.

[3] Power-on after Power Fail: The BIOS setup provides a "Power-on after Power Fail" function that can be found under "Power Management Configuration". This function determines the PC's behaviour after power failure. As a matter of the nature of this function, it may fail after short power failures. This is why this PC also comes with a hardware-based solution. By removing Jumper JP1 (please refer to the Quick Installation Guide), the system will start unconditionally once power is applied.

SHUTTLE XPC nano BAREBONE NC40U-Series — Technical Drawings



© 2023 Shuttle® Computer Handels-GmbH – All information subject to change without notice. Optional components and accessories are not included. Pictures for illustration purposes only.