Item no.: 375298
NC40U - XPC nano

from **234,84 EUR**

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shipping weight: 1.50 kg
Manufacturer: Shuttle

📄 Product Description

The NC40U series comes with powerful and efficient 12th generation Intel Core processors (codename: "Alder Lake-U"). Despite the nano format with a volume of just 850 ml, it offers enormous connection and expansion options. Up to three UHD displays (4K/60Hz) and up to seven USB 3.2 devices can be connected and two NVMe SSD cards in M.2-2280 format as well as a 2.5" hard drive (up to 15 mm thick) can be installed. The NC40U series is ideal for applications such as digital signage, POS, control, office PC or as a media PC.Housing- Housing made of black plastic- Dimensions: 142 x 142 x 42 mm (LWH) = 847 ml- Weight: 0.4 kg net, 1.2 kg with packaging- Opening for Kensington Lock-Stands and 75 / 100 mm VESA mount includedOperating position1) Horizontal2) Vertical with stands3) Behind a suitable screen with VESA mountOperatingsystemThis system is supplied without an operating system.It is compatible with:- Windows 10, 64-bit- Windows 11, 64-bit- Linux, 64-bitProcessor- Model: Intel Celeron 7305- Intel Gen12 ULV processor, codename: "Alder Lake-U"- System-on-a-chip architecture (SoC) with integrated memory and graphics controller- FCBGA1744 package - soldered directly to the mainboard-Processor cores: 5 in total- Performance cores: 1 P core (1 thread) with 1.1 GHz base frequency- Efficiency cores: 4 E cores with 0.9 GHz base frequency- Smart cache: 8 MB-Power dissipation (TDP): max. 15 W- Manufacturing process: Intel 7 (10 nm)- Maximum junction temperature: 100 °CProcessor fanBuilt-in fan with 4-pin connectorSupports temperature-controlled speed controlIntegrated graphicsIntel UHD graphics function with 48 execution units (AE)Maximum dynamic graphics frequency: 0.9 GHzSupports up to three independent displays with up to 4K/60Hz (Ultra HD 3840×2160 resolution).The DisplayPort also supports 5K/60Hz (5120x2880 resolution in 16:9 ratio).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(BIOS)AMI BIOS in 32 MByte EEPROM with SPI interfaceSupports resume after power failureSupports Wake on LAN (WOL)Supports power on by RTC alarmSupports hardware monitoring and watchdog functionSupports the Unified Extensible Firmware Interface (UEFI)Supports firmware TPM v2.0 (fTPM)(Hardware TPM optional, only on project request)Memory support2x SO-DIMM slot with 260 pinsSupports DDR4-3200 (PC4-25600) SDRAM with 1,2 VSupports dual-channel modeSupports maximum 32 GB per slotTotal capacity maximum 64 GBSupports unbuffered DIMM modules (no ECC or registered)2.5" drive baySupports one Serial ATA hard diskor one SATA SSD drive in 6.35 cm / 2.5" formatDrive height 15 mm (max.))Supports Serial ATA III, 6 Gb/s (max. 600 MB/s) data transfer ratePre-installed SATA/power cableTwo M.2 slots for SSDsSlots for SSDsThe PC offers two M.2-2280M slots for SSD cards in M.2 format:1) M.2-2280M slot supports PCIe Gen4 x4 (from the top)2) M.2-2280M slot supports PCIe Gen3 x4 and SATA v3.0 (from the bottom)M.2-2280M slots used must be 22 mm wide and 80 mm wide.cards used must be 22 mm wide and 80 mm long.Supports M.2 cards with M-Key or with B+M-Key.Two thermal pads for M.2 SSDs included.Supports RAID configuration using Intel® Volume Management Device technology (Intel® VMD). Supports RAID 0 or RAID 1 mode of two M.2 SSD cards with PCIe interface (NVMe protocol). To do this, the SATA mode must be switched to "Raid" in the Advanced BIOS setup.Sound functionC-Media CM6542 audio codec with USB interfaceTwo analogue 3.5 mm audio connections on the front: 1) Line-out (headphones)2) Microphone inputDigital multi-channel audio output via HDMI and DisplayPortGigabit networkEthernet controller Intel i219Supports 10 / 100 / 1.000 MBit/s data transfer rate (Gigabit)Supports WAKE ON LAN (WOL)Supports booting from the network via Preboot eXecution Environment (PXE)M.2-2230E slot for WLAN cardsM.2-2230E slot supports WLAN expansion cards Interfaces: PCI-Express X1 and USB 2.0M.2-2230 E slot usedplug-in cards used must be 22 mm wide and 30 mm long (type 2230)This PC has two pre-installed internal WLAN antennas with I-PEX4/MHF-IV connectorsOptional Shuttle accessories: WLN-M / WLN-M1 (AC/AX WLAN card with external antennas)Front connectors- 1x USB-C (supports DisplayPort 1.4a and USB 3.2 Gen 1 with 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 socket)- Microphone input (3.5 mm jack socket)On/off buttonPower indicator LED (blue)Hard drive LED (orange)Rear connectionsDisplayPort 1.4a [1]HDMI 2.0b2x USB 3.2 Gen 2 Type A (max. 10 GBit/s, red)2x USB 3.2 Gen 1 Type A (max. 5 GBit/s, blue)Gigabit LAN (RJ45, Intel 219)DC input for external power supply unit (5.5 / 2.5 mm)2x perforation (6.5 mm diameter) for optional WLAN antennasAlways-On-JumperIf jumper JP1 is removed (see quick guide), the PC will start unconditionally as soon as the power supply is established. [3]Clear CMOS jumperClose jumper JP2 for approx. 10 seconds to reset the BIOS settings to the factory settings.Power supply unitExternal 65 W power supply unit (fanless)Input: 100-240 V AC, 50/60 Hz, max. 1.6 AOutput: 19 V DC, max. 3.42 A, max. 65 WDC able approx. 175 cm with 5.5 / 2.5 mm barrel connector (outer/inner diameter)The DC input of the computer supports 19V±5%.AC cable, approx. 170 cm, 3-pin with C6 cloverleaf and Schuko plugSupplied accessoriesMultilingual installation instructionsDriver DVD for Windows 10/11Two-piece steel VESA bracket setwith six screws (4x M4x10, 2x M2.5x3)Bracket for a 2.5" drive with eight screws (M3x5)Two aluminium feet (110 mm wide) for vertical operation with four M3x7 screwsFour black, round rubber feet, approx. 10 mm diameter x 2.5 mmThree screws for attaching M.2-cardsTwo self-adhesive thermal pads for M.2SSD cardsExternal 65W power supply unit with AC power cableOptional accessoriesWLAN module with external antennas [4]WLN-M(802.11ac, Wifi 5, BT4.2) or WLN-M1(802.11ax, Wifi 6, BT5.2)Environmental parameters- Permissible operating temperature range: 0-40 °C [2]-Permissible relative humidity: 10-90% (non-condensing)Conformity/certificationsEMC: CE, UKCA, FCC, BSMI, RCM, VCCISafety: CB IEC60950/62368, cTUVus (UL 62368), BSMIOther: RoHS, Energy Star, ErPThis device is categorised as Class B information technology equipment (ITE) and is primarily intended for use in residential and office environments. The CE mark confirms conformity with the following EU directives:(1) Directive 2014/30/EU on electromagnetic compatibility (EMC)(2) Directive 2014/35/EU on the safety of electrical equipment (LVD)(3) Directive 2009/125/EC on the ecodesign of energy-related products (ErP)[1] Convert DisplayPort to HDMI/DVIThe DisplayPort outputs can be converted to HDMI or DVI using an inexpensive, 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 function recognises the characteristics of the connected display and outputs the appropriate electrical signal - either DisplayPort (without adapter) or HDMI/DVI (with adapter).[2] Attention: For ambient temperatures from 35 °C, SSD drives (support at least up to 70 °C) are recommended instead of hard drives. Ensure free air circulation around the PC and freely accessible ventilation holes on the device.[3] Power on after Power Fail:The BIOS setup under "Power Management Configuration" contains the "Power on after Power Fail" function, which defines how the PC reacts after a power failure. In principle, however, this function can fail in the event of very short power failures, meaning that this PC also has a pure hardware solution. If jumper JP1 is removed (see quick guide), the PC will start as soon as the power supply is restored.[4] Optional wireless LAN module: this Nano PC can be optionally upgraded with WLAN/Bluetooth functionality. Shuttle offers the matching accessory kits "WLN-M" and "WLN-M1", consisting of a WLAN card in M.2-2230 format and two external antennas with matching antenna cables.Note: two internal antennas are already pre-installed and can be used instead.

🗎 Specifications