Item no.: 398544

P25N - XPC AIO Barebone Intel N100 29.5cm 11.6inch max. 1x16GB SO-DIMM

from **456,95 EUR**

Item no.: 398544
shipping weight: 3.20 kg
Manufacturer: Shuttle

📄 Product Description

XPC all-in-one P25NCompact all-in-one PC for POS or control applicationsThe Shuttle XPC all-in-one P25N with 11.6" multi-touch display is positioned as a space-saving POS system or as a control unit for media playback or automation. With the practical folding stand, the inclination can be individually adjusted, but mounting on a VESA stand or wall bracket is also possible. The front is protected against dust and splash water in accordance with protection class IP54. A cable collection box at the rear keeps cables organised. Thanks to completely passive cooling, the system is virtually silent, maintenance-free and suitable for 24/7 continuous operation.Details- Intel processor N100 (Gen 12)- 11.6" multi-touch screen (29.5 cm) with IP54 protection- Up to 16 GB DDR5 memory- 1× HDMI 2.0b, 1× VGA- 1× 2.5" HDD/SSD and 1× M.2SSD- 2.5 Gbit Ethernet, Wi-Fi 5 and Bluetooth- 2× USB 3.2 (10 Gbit), 4× USB 3.2 (5 Gbit), 2× COM- Integrated speaker, camera and microphone- Flexible stand and VESA mounting option- Suitable for 12 or 19 V DCEXTENSIONS VIA M.2-MODULEThis AiO has two M.2 slots that allow the addition of various data storage and expansion modules, such as NVMe SSDs, wireless LAN cards or cellular modems. These M.2 slots utilise the high-speed PCI Express interface, enabling fast data transfer and efficient system performance.(*The M.2-2230 slot is occupied by a pre-installed Wi-Fi module.)DDR5-RAMThis device utilises modern DDR5 memory technology, which offers improved performance and efficiency compared to previous generations. It supports up to 16GB of DDR5 SO-DIMM memory for smooth multitasking and responsiveness, even with the most demanding applications. With higher bandwidth and improved data transfer rates, DDR5 offers faster access speeds, making it ideal for running resource-intensive software. In addition, DDR5's better energy efficiency helps to reduce energy consumption while delivering premium performance.FLEXIBLE STANDThis elegant yet stable stand is infinitely adjustable, allowing the user to find the perfect viewing angle and ergonomic operating position. In addition to its function as a stand, it also serves as a practical carrying handle, making the device easy to transport.INTEGRATED HD CAMERAA A Full HD camera module, equipped with a microphone, is located behind the protective glass at the top of the screen. This facility is ideal for a variety of applications including scanning, object recognition and video calls. A status LED indicates when the camera is active, ensuring privacy and security.TWOCONNECTORS FOR EXTERNAL SCREENSThis model supports advanced display capabilities through HDMI and VGA connections. These options allow you to connect up to two additional screens for a total of three displays. This function is ideal for various applications, e.g. for displaying customer information, advertising content or to increase productivity.HDMI 2.0BVGAVESA PREPARATIONBehind the cover of the flexible stand, the device has a VESA 100×100 mounting surface. This allows easy installation of wall brackets, movable arms or other VESA-standardised brackets as an alternative to the stand. The device can be securely fastened with four screws, offering versatile mounting options for different environments.THEFT PROTECTIONThe Kensington slot, located on the side of the housing (also known as the K-Slot or Kensington Lock), offers reliable theft protection. This slot is compatible with a range of security locks and cables, which are available in various designs from specialist retailers. This function allows you to protect your device in public or shared spaces.SPACE FOR A 2.5" DATA CARRIERThis model not only supports an NVMe SSD, but also offers space for conventional 2.5" data carriers. This allows you to install hard drives or SSDs that offer large storage capacities up to the high terabyte range. The device accepts drives up to 12.5 mm in height, offering flexibility for different storage requirements.SERIAL INTERFACEThe serial COM interface is a classic interface that has stood the test of time and is essential for many professional applications. It is often used in POS systems, industrial equipment, scientific equipment and other specialised areas where reliable, straightforward communication is required. This interface ensures compatibility with a range of legacy devices and systems.Fanless and quietPassive heatpipe cooling, no fan noiseIdeal for noise-sensitive environmentsLess contamination from dust - making it virtually maintenance-free24/7 continuous operation- This device is officially approved for 24/7 continuous operation. Free air circulation around the PCFreely accessible ventilation holes on the device.If a hard disk is installed, this must also be approved by the manufacturer for 24/7 operation.IP54 protection class- The front of the device is protected against dust and splash water in accordance with protection class IP54.Housing- Colour: black- Dimensions: 29.9 x 20.7 x 5.9 cm (WxHxD)- 75x75mm VESA mounting- Mounting hole for Kensington system- Weight: 1.95 kg net, 3.14 kg grossOperating system- This system is supplied without an operating system.- It is compatible with It is compatible with:- Windows 10/11 - 64-bit - Linux - 64-bitTouchscreen- Touch function for touch input with a finger- Capacitive touchscreen with 10-point multi-touch support- Supports operation with gloves (PVC, cotton, linen)- Does not support a stylus pen29.5 cm display (11.6")- 29.5 cm / 11.6" LCD TN display, aspect ratio: 16:9 widescreen- Resolution: 1366 x 768 = 1.05 megapixels- Backlight: LED, brightness: 250 cd/sqm (typ.)- Glass thickness: 3 mmProcessor- Model: Intel N100- System-on-a-chip architecture (SoC) - no chipset required- FCBGA1264 housing - soldered directly onto the mainboard- Codename: Alder Lake-N (12th generation Intel Core)- Cores / Threads: 4 / 4- Turbo clock frequency: max. 3.4 GHz- Smart Cache: 6 MB- Power dissipation (TDP): 6 W- Manufacturing process: Intel 7- Maximum junction temperature: 105 °CIntegrated graphics function- Intel UHD Graphics- Graphics clock frequency: max. 750 MHz- Execution units (EUs): 24- Supports DirectX 12.1Up to three displays simultaneously- Two video outputs support two additional independent monitors- 1) HDMI 2.0b supports 3840 x 2160 @ 60 Hz- 2) VGA / D-Sub analogue video supports 1920 x 1080 @ 60 Hz - The following conditions apply in multi-monitor mode:1) In clone mode, all displays show the same image in 1366x768 resolution2) In extended mode, all displays can show different contentBIOSAMI BIOS in 32 MByte EEPROM with SPI interfaceSupports the function "switch on after power failure" and "always on"Supports Wake-on-LAN (WOL) from the S3, S4, S5 ACPI modesSupports hardware monitoring and watchdog functionSupports firmware TPM v2.0 functionMemory- 1x SO-DIMM slot with 262 pins- Supports DDR5-4800 (PC5-38400) SDRAM with 1.1 V or DDR5 memory with higher clock frequency- Supports maximum 16 GB memory capacityHard drive / SSD- Supports one SATA hard drive or one SATA SSD drive in 6.35 cm / 2.5" format- The SATA 3.0 interface supports up to 600 MB/s data rate (6 Gbit/s)- Supports a drive with a height of up to 9.5 mm- Pre-installed SATA cable availableM.2-2280-Slot- The M.2 2280 M slot offers the following interfaces: - PCI-Express Gen. 3.0 x2 - SATA v3.0 (max. 6 Gbit/s)- The M.2 2280 M slot used must be 22 mm wide - The M.2 2280 M slot must be 22 mm wide.plug-in cards used must be 22 mm wideand must have a length of 80 mm (type 2280).- Supports M.2 SATA SSDs (with B+M key) and M.2 PCIe SSDs (with M-Key)Webcam- Integrated camera module with Full HD resolution (1920 x 1080 pixels = 2 MP)Microphone and speakers- Condenser microphone and 2 W speakers are integrated in the housingAudio function- Realtek ALC888S (HD audio)- Two analogue 3.5 mm audio connections on the left side: 1) Line-out (headphones)2) Microphone input- Digital multi-channel audio output possible via HDMI.Network- Intel i226LM Ethernet Controller- Supports 10 / 100 / 1,000 / 2500 MBit/s data transfer rate- Supports WAKE ON LAN (WOL) from S3/S4/S5 mode- Supports booting from the network via Preboot eXecution Environment (PXE)WLAN wireless network- Built-in M.2-2230-E WLAN card with two internal antennas- WLAN controller Realtek RTL8821CE- Supports WiFi IEEE 802.11b/g/n/ac in the 2.4 / 5 GHz band, 1T1R- Supports 20 / 40 / 80 MHz channel bandwidth- Security: supports WPA(-PSK), WPA2(-PSK), WEP 64/128 bit, IEEE 802.11x, IEEE 802.11i- Supports Bluetooth 4.2 in the 2.4 GHz bandHoles for optional antennas- The housing has two perforated 6.5 mm holes- For mounting optional antennas with (RP) SMA connection- For wireless data transmission via WLANFront LEDs- Power indicator (blue)- Hard drive LED (orange)Connections on the left- On/off button- 2x USB 3.2 Gen 2 (Type A, red, max. 10 Gbit/s)- Audio line-out / headphones (3.5 mm jack socket)- Microphone input (3.5 mm jack socket)- Hole with Clear CMOS buttonConnections on the right- Mounting hole for Kensington LockBottom connections- HDMI 2.0b (supports digital video and digital audio)- VGA connection (D-Sub 15-pin, analogue video)- 4x USB 3.2 Gen 1 (Type A, blue, max. 5 Gbit/s)- 2.5G network (RJ45)- 2x COM port (RS232)- Input for external power supply (5.5 / 2.5 mm)Jumper configuration- Jumper JP1 for Power-On-after-Power-Fail (hardware solution) [1]Power supply- External 65 W power supply (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, approx. 170 cm, 5.5 / 2.5 mm connection- AC cable, approx. 170 cm, 3-pin with C6 cloverleaf and Schuko plugDC input- DC plug: 5.5 / 2.5 mm (outer/inner diameter)- The DC input of the computer supports a- external power supply with 12V±5% and 19V±5%.Accessories included:- Quick installation guide (multilingual)- Windows 10/11 driver DVD- External power supply (65 W / 19V) with 3-pin power cableOptional accessories:- WLN-M1:WLAN kit with Intel AX200 WLAN card (supports WLAN-ax / Wi-Fi 6) and two external antennas- Note: a WLAN-ac / Wi-Fi 5 module with two internal antennas is already pre-installed ex works.Permitted environmental parameters- Operating temperature: 0-40 °C- Humidity: 10-90 %, non-condensingCertificates- EMI certificates: CE, UKCA, FCC, BSMI, RCM, VCCI- Safety certificates: CB (IEC 60950/62368), cTUVus (UL 62368-1:2014), BSMI- Other conformities: RoHS, ErP Lot3, Energy Star v8.0Conformity- This 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)(4) Directive 2014/53/EU on radio equipment (RED: Radio Equipment Directive)[1] Power-On-after-Power-FailThe BIOS setup under "Power Management Configuration" contains the "Power-On-after-Power-Fail" function, which defines how the PC reacts after a power failure: (1) switch on unconditionally, (2) restore status before the power failure or (3) leave switched off. In principle, however, this function can fail in the event of very short power failures, so that this PC also has a pure hardware solution. If you remove jumper JP1 (on the mainboard near the power button), the PC will always start as soon as the power supply is restored.

📄 Specifications

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