Item no.: 375244

SHUTTLE Barebone XPC cube SH570R6 Plus Socket LGA1200 4x 288-Pin DIMM 1xHDMI 2xD

from **408,82 EUR**

Item no.: 375244
shipping weight: 4.80 kg
Manufacturer: Shuttle

Product Description

Mini PC cube for high demandsThe Shuttle XPC Barebone SH570R6 Plus shows just how compact and powerful a modern PC can be. With a volume of just 14 litres, its black aluminium housing offers everything you need to configure a workstation. It supports 10th and 11th generation Intel Core processors ("Comet Lake-S" and "Rocket Lake-S"), a dual-slot PCI Express graphics card, fast M.2 NVMe SSDs, two 3.5" hard drives in a RAID array and up to 128 GB DDR4 RAM as well as an optical drive. Even without an additional PCIe graphics card, up to three UHD displays can be operated simultaneously as an option.- For Intel processors in socket LGA1200 (Gen 10/11)- TDP up to max. 125 watts- Up to 128 GB DDR4 memory- Two M.2 slots (1× M.2-2280, 1× M.2-2230)- PCIe-x16-4.0 for dual-slot graphics cards- PCIe-x4 for expansion cards- Dual Gigabit Ethernet, WLAN preparation- 4× USB 3.2 (10 Gbit), 1× USB 3.2 Type C (5 Gbit), 3× USB 3.2 (5 Gbit), 4× USB 2.0- 1× HDMI 2.0b, 2× DisplayPort 1.4- 4× SATA with space for 2× 3.5" and 1× 5.25" drives- Remote Power On connection- 500 watt power supply unit (80 PLUS Gold)VIEW AS A PHOTOREALISTIC 3D MODELThe 3D model can be moved 360° and can be viewed in minute detail by zooming in. Opened on a smartphone or tablet, it can be displayed and marvelled at as a 3D object in a real environment. By the way: All this works without installing an app on iOS and Android devices.SPACE FOR FAST DUAL-SLOT GRAPHICS CARDSOften, only the really big graphics cards deliver the necessary performance. This XPC offers enough space in most cases. The dual-slot graphics cards suitable for this model can be up to 273 mm long, 98 mm high and 38 mm wide.EXCLUSIVE COOLING SYSTEMTo ensure reliable operation even under high loads, this model combines two cooling methods. A heatpipe directs the waste heat from the processor out of the housing and its large fan generates a constant flow of air through the interior of the housing.HEATPIPE COOLING SYSTEMThe processor transfers its waste heat to the copper element of the heatpipe's heat sink, which heats up the tubes and triggers heat transport towards the cooling fins. The housing fan pushes air through the fins and cools them down in turn.THROUGH-HOUSEAIR FLOW DUCTINGThe regulated fan draws in fresh air through large openings on the sides of the lid and underneath the housing. On its way out, this air flows past drives, components and important parts, which are cooled down in this way.THREE4K-ACCEPTABLE MONITOR CONNECTORSTwo DisplayPort connections and one HDMI 2.0 connection* enable high-resolution multi-monitor workstations and thus the display of large amounts of information that can be captured at a glance.(*only when using an 11th generation Intel Core processor, otherwise the connection only works in HDMI 1.4b mode)EXTENSIONS BY M.2MODULETwo M.2 slots enable expansion with data carriers and additional modules, such as for WLAN or mobile communications. Thanks to the PCI Express connection, large amounts of data can be transported quickly via the M.2 slot.ExamplesM.2-2280 for an NVMe SSDM.2-2230 for a WLAN moduleTWOPCI EXPRESS SLOTS OFFER EXPANSION POTENTIALOne PCIe slot in x16-4.0 format and one slot in x4-3.0 format can be fitted to suit the intended use. Examples include graphics cards, network cards, I/O cards, data carriers or professional AV cards.UP TO 128 GB RAMVirtualisation, media creation and professional applications are particularly memory-hungry. With four slots and thus a total of 128 GB RAM, this Mini PC can meet even the highest demands.TWONETWORK CONNECTIONSThis feature is particularly interesting for important network applications - two Gigabit Ethernet connections enable physically separate networks.REMOTE STARTBY WIREThis model has a remote power-on connection. Pins on the back can be used to connect your own buttons with any two-pole cable, which can then be used for remote start.Housing- Black aluminium housing- Front: plastic (glossy) with horizontal line structure- Cover flaps on the front for drives and media ports- Kensington security slot on the back of the housing (also: K-Slot or Kensington Lock) as part of an anti-theft device- Dimensions: 33.2 x 21.5 x 19.0 cm (LWH without feet) = 13.6 litres- Height with rubber feet: 19.7 cm- Weight: 3.5 kg net / 4.5 kg grossMainboard / Chipset- Mainboard with Shuttle's own format, special design for XPC Barebone SH570R6 Plus- Chipset/Southbridge: Intel® H570- Passive chipset cooling with heat sink- The Northbridge is integrated in the processor.- With solid electrolytic capacitors (solid capacitors) - these capacitors are more heat-resistant and durableBIOS- AMI BIOS, SPI interface, 16 MB Flash EPROM device- Supports hardware monitoring, watchdog- Supports restart after power failure (Power Fail Resume)- Supports firmware TPM (fTPM) v2.0- Supports booting from external flash memory via USB- Supports the Unified Extensible Firmware Interface (UEFI)Power supply- Built-in 500 Watt mini switching power supply [1]- Input voltage: Supports 100-240V AC, 50-60 Hz- 80 PLUS Gold compliant- Active PFC circuit (power factor correction)- ATX power supply connectors: 2x10 and 2x2-pin- Power connector for graphics card: 6-pin and 8-pin- Additional connectors: 4x SATA, 2x MolexOperating system- This system is delivered without operating system.- It is compatible with Windows 10/11 (64 bit) and Linux (64 bit)Processor support- Processor socket LGA 1200- Supports Intel Core i9 / i7 / i5 / i3, Pentium Gold and Celeron processors- Supports the 10th and 11th generation Intel Core processors with the codenames "Comet Lake-S" and "Rocket Lake-S" and 14++ nm technology- Maximum supported processor power dissipation (TDP) = 125 W.- Supports up to 10 CPU cores, 20 CPU cores, 20 CPU cores, 20 CPU cores and 20 CPU cores. Up to 10 CPU cores, 20 threads and 20 MB L3 cache- Does not support the unlock function of Intel K series processors.- The processor integrates the controllers for PCI Express and memory and the graphics function on the same semiconductor chip.- However, processors with an "F" designation do not support integrated graphics [3] (the performance features depend on the processor model).- Detailed information on compatible processors can be found in the support list at global.shuttle.com.Heatpipe processor cooling- Shuttle I.C.E. (Integrated Cooling Engine)- I.C.E. Heatpipe cooling technology with linear controlled 9.2 cm fan- SilentX technology for more efficient and quieter coolingMemory support- 4x 288-pin DIMM slots- Supports DDR4 memory with 1.2 V- Supports dual-channel mode- Supports maximum 32 GB per slot, total capacity maximum 128 GB- The maximum DDR4 clock frequency depends on the processor type used:Gen. 11 "Rocket Lake" supports DDR4-3200 (PC4-25600U)Gen. 10 "Comet Lake" Core i7/i9 supports DDR4-2933 (PC4-23433U)other Gen. 10 "Comet Lake" support DDR4-2666 (PC4-21300U)PCIe slots- 1x PCI-Express x16 v4.0 slot (only supports PCI-Express v3.0 with Gen. 10 "Comet Lake" processors)- 1x PCI-Express x4 v3.0 slot, half-open- Graphics cards with double slot width are supported, but in this case the second PCI-Express slot cannot be used. The graphics card must not exceed the following dimensions: 273 x 98 x 38 mm.- Power connection for graphics card: 6-pin and 8-pin [1]- A compatibility list can be found at global.shuttle.com.Integrated graphics function (optional [3])- The properties of the integrated Intel UHD graphics function depend on the processor type used. - Some processor models do not offer an integrated graphics function [3]- The PC offers three video outputs that support UltraHD 2160p/60:1x HDMI v2.0b (only HDMI v1.4b with Gen. 10 "Comet Lake" processors)2x DisplayPort v1.4- Supports 4K displays with 3840 x 2160 Ultra HD resolution (2160p/60)- Supports three independent displays via the integrated graphics function- Supports additional displays together with external graphics card- Hardware video decoding/encoding- DisplayPort and HDMI support multi-channel digital audio via the same cableDrive bays- Drive bays: 1 x 5.25" (external), 2 x 3.5" (1x internal, 1x external)- With the optional PHD3 accessory, two 2.5" drives can be installed in each 3.5" bay.SATA ports- 4x Serial ATA 6G onboard ports (rev. 3.0, max. 6 Gbit/s)- Supports Intel Rapid Storage Technology (RST) with Raid 0/1/5/10, JBOD)M.2-2280M SSD slotThe M.2 2280 M slot offers the following interfaces:- PCI-Express Gen. 3.0 X4 supports NVMe- SATA v3.0 (max. 6 Gbit/s)The M.2 2280 M slot used must be 22 mm wide and have a maximum width of 6 mm.plug-in cards used must be 22 mm wide and can have a length of 42, 60 or 80 mm (type 2242, 2260, 2280).- Supports M.2 SSDs with SATA and PCI Express interfaceM.2-2230E slot for WLAN cards- Interfaces: PCI-Express Gen. 3.0 X1 and USB 2.0- Used M.2-2230-plug-in cards used must be 22 mm wide and 30 mm long (type 2230)- Supports WLAN expansion cards (optional Shuttle accessory: WLN-M)HD Audio- Audio codec: Realtek ALC897, 5.1 channel-Three analogue 3.5 mm audio connections on the rear:line-in (blue), line-out (green) and microphone input (pink) switchable to 5.1 line-out (front, rear, centre/bass)- On the front: microphone input and headphone output (line-out)Dual Gigabit network- Two RJ45 Gigabit network connections- 1x Intel i210AT - Ethernet controller with MAC, PHY and PCIe interface- 1x Intel i219LM - PHY connected to the MAC of the processor- Supports 10 / 100 / 1.000 MBit/s data transfer rate- Supports WAKE ON LAN (WOL)- Supports booting from the network via Preboot eXecution Environment (PXE)Connections and buttons on the front- Microphone input (3.5 mm)- Headphone output (3.5 mm)- 1x USB 3.2 Gen 1 (5 Gbit/s), Type C- 3x USB 3.2 Gen 1 (5 Gbit/s), Type A, Blue- On/Off button- Power indicator (Blue LED)- Activity indicator for hard drive (Yellow LED)Rear connections- 1x HDMI 2.0b (HDMI 1.4b with Gen. 10 "Comet Lake" processor)- 2x DisplayPort 1.4 [2]- 4x USB 3.2 Gen 2 (10 Gbit/s), type A, red- 4x USB 2.0, type A, black- 2x Gigabit LAN (RJ45)- Audio line-out (3.5 mm)- Audio line-in (3.5 mm)- Microphone input (3.5 mm)- 1x 4-pin connector (2.54 mm pitch) supports:external power buttonClear CMOS function5V DC voltage for external components- Optional: Serial RS232 interface (accessory: "H-RS232")- 3x perforation for optional WLAN antennas (accessory: "WLN-M")Further connections onboard- Assigned front panel connections for USB, audio. Buttons, LEDs- 1x RS232, serial interface (2x5 pins)- 2x fan connectors (4 pins)- 1x USB 2.0 (4 pins)Supplied accessories- Multilingual XPC installation guide (DE, EN, FR, ES, JP, KR, SC, TC)- Windows 64-bit driver DVD- 2x Serial-ATA drive cables- 230V mains cable (with earthing contact)- Thermal paste- Protective cap for the CPU socket (do not use if heatpipe or cooler is installed, if heatpipe or cooler are installed)- Bag of screwsOptional accessories- Backpanel adapter for a serial RS232 interface (H-RS232)- WLAN kit supports WLAN+BT with two external antennas (WLN-M (802.11ac) and WLN-M1 (802.11ax))- Adapter for 2.5" drives such as SSD drives (PHD3)- Adapter cable for an external power button (CXP01)- 850W power supply unit (PC850)Permitted environmental parameters- Ambient temperature during operation: 0-40 °C- Relative humidity: 10-90 %Certificates / conformity:- EMI: FCC, CE, BSMI, C-Tick- Safety: CB, BSMI, ETL- Other: RoHS, Energy Star, ErP- 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).[1] Online Power CalculatorThe PCI-Express X16 slot supplies a maximum of 75 watts to the graphics card, plus 75 watts and 150 watts via the 6-pin and 8-pin power connection from the power supply unit - the power dissipation of the graphics card must therefore not exceed 300 watts. The processor may have a maximum TDP of 125 watts. If powerful PC components are used, use the "Power Supply Calculator" to check whether the built-in 500 watt power supply unit supports this configuration, see: http://global.shuttle.com/support/power. Detailed information on compatible processors and graphics cards can also be found in the support list at http://global.shuttle.com.[2] Convert DisplayPort to HDMI/DVIThe DisplayPort output 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) 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).Conversely, a monitor with DisplayPort cannot be connected to the HDMI output via a simple, passive adapter.[3] Integrated graphics is optionalNote: Processors whose model designation ends with "F" (e.g. Intel Core i5-11600F) do not have an integrated graphics function, so the graphics outputs of the Shuttle XPC have no function. In this case, an additional discrete PCIe graphics card is mandatory.

Specifications