

Item no.: 401187 DH770 - Barebone XPC slim LGA1700 2xSODIMM 2xM.2 2xHDMI 2xDP

## from 393,44 EUR

Item no.: 401187 shipping weight: 2.70 kg Manufacturer: Shuttle



Product Description

The Shuttle XPC slim Barebone DH770 with H770 chipset brings the performance of Intel's 12th, 13th and 14th generation Core desktop processors (codenamed "Alder Lake-S" The Shuttle XPC slim Barebone DH770 with H770 chipset brings the performance of Intel's 12th, 13th and 14th generation Core desktop processors (codenamed "Alder Lake-S" and "Raptor Lake-S" [Refresh]) with socket LGA1700 into a compact 1.3-litre format. It supports the simultaneous operation of four Ultra HD displays via 2x HDMI and 2x DisplayPort. Dual Intel 2.5G network, four USB 3.2 Gen 2 and COM ports are also available. Its flat metal housing with VESA mount, versatile connection options and reliable operation at ambient temperatures of up to 50 °C make the DH770 ideal for professional applications such as digital signage, POS, POI, gaming machines, offices, healthcare and industry.Housing- Slim PC with black metal housing- Dimensions: 19 x 16.5 x 4.3 cm (LWH) = 1.35 litres- Weight: 1.3 kg net and 2.1 kg gross- Two openings for Kensington Lock and numerous- M3 threaded openings on both sides of the housing.Power supply unit-External 120 W power supply unit (fanless)- Input: 100-240 V AC, 50/60 Hz- Output: 19 V DC, 6.32 A, max. 120 W- DC plug: 5.5/2.5 mm (outer/inner diameter)- Note: The DC input of the computer supports an external power supply with 194/±5%- AC cable: 3-pin, approx. 1.7 m long, with C5/C6 cloverleaf plug connection to the power supply unit and CEE-7/7 plug with earthing contact (type E+F) for connection to the socketOperating system-This system is supplied without an operating system. It is compatible with Windows 10/11. It is compatible with Windows 10/11 and Linux (64 bit).Processor support-Processors Supports the following generations of Intel Core ig / 17 / 15 / 13. Pentium Gold and Celeron processors-Supports the following generations of Intel Core soft 10/14 ke-S"-Gen 13 "Raptor Lake-S" -Gen 14 "Raptor Lake-S Refresh"- in "Intel 7" process technology (formerly: Intel 10 nm Enhanced SuperFin)- Supports only processors with integrated graphics function [5]- Maximum supported processor power dissipation (TDP) = 65 W.- Does not support the unlock function of Intel K-series processors. The top of the caseMainboard / Chipset- Mainboard in Shuttle format - special design for XPC Barebone DH770- Chipset/Southbridge: Intel® H770- Passive chipset cooling with weat sink- The Northbridge is integrated in the processor.- With solid electrolytic capacitors (solid capacitors) - these capacitors are more heat-resistant and durable.BIOS- AMI BIOS, SPI interface, 32 MB flash EPROM device- Supports hardware monitoring and watchdog function- Supports firmware TPM (fTPM) v2.0 [9]- Supports booting from external flash memory via USB- Supports the Unified Extensible Firmware Interface (UEFI)- Supports reboot after power failure (Power-On-after-Power-Fail) [7]Memory support- 2x SO-DIMM slot with 262 pins- Supports DDR5-5600 (PC5-44800) SDRAM with 1,1 V- Supports dual-channel mode- Supports a maximum of 32 GB per slot-Maximum total capacity 64 GB- Note: In combination with an Intel Core Gen 13/14 "Raptor Lake" processor two 48 GB RAM modules are also supported.- Supports unbuffered DIMM modules (no ECC or registered)Integrated graphics function- The properties of the integrated Intel UHD graphics function depend on the processor type used. [5]- The PC offers four video outputs that support 1080p/60 and 2160p/60: 2x HDMI v2.0b, 2x DisplayPort v1.4- Supports 4K displays with 3840 x 2160 Ultra HD resolution- Supports four independent displays via the integrated graphics function- DisplayPort and HDMI support multi-channel digital audio via the same cable.- Optional analogue D-Sub/Video output via HDMI. Optional analogue D-Sub/VGA video output [4]Drive bay- 1x 6.35 cm / 2.5" drive bay for one hard disk or one SSD drive with SATA connection- Drive height 12.5 mm (max.)SATA connection- 1x D-Sub/VGA video output [4]Drive bay- 1x 6.35 cm / 2.5" drive bay for one hard disk or one SSD drive with SATA connection- Drive height 12.5 mm (max.)SATA connection- 1x Serial-ATA III, 6 Gb/s (600 MB/s) data transfer rate- With Serial-ATA power connector (onboard)M.2-2280M SSD slotThe M.2 2280M Slot offers the following interfaces:-PCI-Express Gen. 4.0 X4 supports NVMe- SATA v3.0 (max. 6 Gbit/s)- M.2 plug-in cards used must be 22 mm wide and 80 mm long (type 2280)- Supports M.2 SDS with SATA or PCI-Express interfaceM.2-2230E slot for WLAN cards- Interfaces: PCI-Express Gen. 2.0 X1 and USB 2.0- M.2-2230E slot for WLAN cards used must be 22 mm wide and 30 mm long (type 2230)- Supports WLAN expansion cards (optional Shuttle accessory: WLN-M1)Sound function- Audio Realtek® ALC888S High-Definition Audio- Two analogue 3.5 mm audio connections on the front:-1) 2-channel line-out (headphones)2) Microphone input- Digital multi-channel audio output via HDMI and DisplayPortDual 2.5G network controller- Two RJ45 network ports, each with two status LEDs- Network chips used:2x Intel i226LM Ethernet Controller (MAC+PHY)PCIe interfaceSupports Windows 10/11 desktop and Windows Server operating systemSupports 100 / 1.000 / 2.500 MBit/s data transfer rateSupports WAKE ON LAN (WOL)Supports booting from the network via Preboot eXecution Environment (PXE)Front connectors- Microphone input- Audio line-out (headphones)- 2x USB 3.2 Gen 2 Type A (Red)- 1x USB 3.2 Gen 1 Type A (Blue)- 1x USB 3.2 Gen 1 Type C- On/Off button- Power indicator LED (blue)- Hard drive LED (yellow)Rear connections- 2x HDMI 2.0b connection [1]- 2x DisplayPort 1.4 connection (DP) [2]-Optional: 1x D-Sub (5/12V, 1x RS422/RS485) [3]- 14 DC inout for external power supply (support s) 19V±5%)- 14 X-50 in connector (2.54 mm pitch) supports:- external power supply (support s) 19V±5%)- 14 X-50 in connector; external power supply (support s) 19V±5%)- 14 X-50 in connector; external power supply Optional: 1x D-Sub VGA connection (accessory PVG01 [4])- 2x USB 3.2 Gen 2 Type A (red)- 2x USB 3.2 Gen 1 Type A (Blue)- 2x 2.5G LAN (RJ45, Intel i225)- 2x RS232 serial pot, 9-pin. D-Sub (5/12V, 1x RS422/RS485) [3]- 1x DC input for external power supply (supports 19V±5%)- 1x 4-pin connector (2.54 mm pitch) supports: external power button-Clear CMOS function- 5V DC voltage for external components- 2x perforation for optional wireless LAN antennas- 2x opening for Kensington Lock- Additional onboard connections:1x jumper for Power-On-after-Power-Fail (hardware solution) [7]1x analogue VGA graphics output CN6 (2x10 pins, 1 mm pitch) [4]2x serial interface (COM) assigned for backpanel connections1x USB 2.0 (4 pins) for optional accessories WWN03 (LTE kit)1x fan connection (4 pins) occupied by the cooling system1x connection for CMOS battery (occupied)Scope of delivery- Multilingual installation instructions (DE, EN, FR, ES, JP, KR, SC, TC)- VESA bracket for 75/100mm standard (two metal brackets)- Four M3 x 5 mm screws (silver-coloured, for attaching two M.2-cards)- Heat sink for M.2-2280 SSD card with four screws and three thermal pads- Driver DVD (Windows 64 bit)- Serial ATA cable for 2.5" drive with power connector- External 120W power supply unit with power cable- Protective cap for the CPU socket (do not use if heatpipe or cooler are installed)-Thermal pasteOptional accessories - PVG01: Optional D-Sub VGA video output [4]- WLN-M1: WLAN module in M.2-2230-format with two external antennas supports WLAN-ax and Bluetooth- WWN03: LTE adapter kit with antennas, but without LTE card [8]- PS02: Feet for vertical operation - CXP01: Adapter cable for an external power button-PKM01: 2U rack panel for two Shuttle XPC silm PCs- DIR01: DIN rail mounting kitEnvironmental parameters- Permissible operating temperature range: 0-50 °C [6]- Relative humidity, Bluetooth- WWN03: LTE adapter kit with antennas, but without LTE card [8]- PS02: Feet for vertical operation- CXP01: Adapter cable for an external power button- PRM01: 2U rack panel for two Shuttle XPC slim PCs- DIR01: DIN rail mounting kitEnvironmental parameters. Permissible operating temperature range: 0-50 °C [6]- Relative humidity, non-condensing: 10-90 %Certificates / Conformity:- EMI: FCC, CE, BSMI, RCM, VCCI- Safety: CB, BSMI, ETL- Other: RoHS, Energy Star, ErPConformityThis 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)Footnotes:[1]HDMI output supportsDVI with optional adapter[2]ConvertDisplayPort toHDMI/DVIThe DisplayPort table. For example:DELOCK 82590: 1m, 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]Serial interfacesThis PC has two serial RS232 interfaces with 9-pin D-Sub connectors on the rear. The left COM port (COM1) can also be switched to RS422 and RS485 mode in the BIOS setup.Pin 9 of the D-Sub COM port connections is a multifunctional connection. The mainboard jumper JP2 can be used to configure whether pin 9 is switched as a "Ring Indicator" (RI) or provides an external power supply of 5V or 12V. Each COM port can be configure dindividually. The maximum current is 500 mA per connection.]41 Optional BIOS setup.Pin 9 of the D-Sub COM port connections is a multifunctional connection. The mainboard jumper JP2 can be used to configure whether pin 9 is switched as a "Ring Indicator" (RI) or provides an external power supply of 5V or 12V. Each COM port can be configured individually. The maximum current is 500 mA per connection.[4] Optional D-Sub/VGA outputThe mainboard has an analogue graphics output CN6 on the mainboard. This can be routed to the outside via an optional adapter (PVG01) as a 15-pin D-Sub connection. This replaces a serial interface (COM port) in the back panel. The integrated graphics supports a maximum of four displays simultaneously.[5] Intel processors without integrated graphics function, recognisable by the letter "F" in the processor designation, e.g. Core i7-12700F, are not compatible.[6] Operating temperatureSSD drives (up to 70 °C) and SO-DIMM memory with an extended temperature range (up to 95 °C) are recommended for high ambient temperatures from 40 °C.[7] 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 the PM2720 de has on use backware applied. DH770 also has a pure hardware solution. If you remove jumper JP1 (on the mainboard next to the power button), the PC will start as soon as the power supply is restored.[8] Optional accessories WWN03 (LTE kit)With the Shuttle XPC accessory WWN03 accessory kit, you can equip this PC with an LTE/4G function for mobile networks. The 2.5" slot is used for the installation of the LTE card, so that an SSD in M.2 format is required as mass storage. An LTE module in M.2-3042 format and a nano SIM card are still required and are not included in the scope of delivery.[9] TPM functionThis product already has a firmware TPM (fTPM) v2.0. It is also prepared for a hardware TPM chip so that it can be fitted in the factory on special order.

## Specifications

Scan this QR code to view the product All details, up-to-date prices and availability

