

Item no.: 375299

DH670V2 - XPC slim

from **373,41 EUR**

Item no.: 375299
shipping weight: 2.60 kg
Manufacturer: Shuttle



 Product Description

XPC slim DH670V2 Robust 1.3-litre slim PC supports Intel Core processors with socket LGA1700 and four UHD displays. The Shuttle XPC slim Barebone DH670V2 with H670 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 DH670V2 ideal for professional applications such as digital signage, POS, POI, gaming machines, office, healthcare and industry.*) a BIOS update may be required for Intel Core Gen14 (to be performed with a compatible processor)- For Intel Core processors of the 12th/13th/14th generation (LGA1700)- Up to 64 GB DDR4 SO-DIMM- Two RJ45 network connections (2.5 Gbit)- 1x M.2-2280, 1x M.2-2230- 4x USB 3.2 (10 Gbit), 1x USB 3.2 Type C (5 Gbit), 3x USB 3.2 (5 Gbit), 2x RS-232- 2x HDMI 2.0b, 2x DisplayPort 1.4a- Supports four monitors- 1x NVMe SSD, 1x 2.5" drive- Remote power-on connection- Only 19 x 16.5 x 4.3 cm LBH- Heatpipe cooling system with dual fans- VESA/wall mount included-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 case. 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 - D-C connector: 5.5/2.5 mm (outer/inner diameter)- Note: The DC input of the computer supports an external power supply with 19V±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 socket Operating 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- Processor socket LGA1700- Supports Intel Core i9 / i7 / i5 / i3, Pentium Gold and Celeron processors- Supports the following generations of Intel Core processors:- Gen 12 "Alder Lake-S"- Gen 13 "Raptor Lake-S"- Gen 14 "Raptor Lake-S Refresh" since BIOS version 210 available since Jan'24*) in "Intel 7" process technology (formerly: Intel 10 nm Enhanced SuperFin)- Supports only processors with integrated graphics [5]- Maximum supported processor power dissipation (TDP) = 65 W.- 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*) Attention:if a BIOS update is necessary, the PC must first be started with a compatible processor.Download website: <https://global.shuttle.com/support/download>. Processor cooling- Heatpipe processor cooling with two 60 mm fans on the top of the case Mainboard / chipset- Mainboard in Shuttle format - special design for XPC Barebone DH670V2- Chipset/Southbridge: Intel® H670- Passive chipset cooling with heat sink- The Northbridge is integrated in the processor.- With solid electrolytic capacitors. With solid electrolytic capacitors (solid capacitors) - these capacitors are more heat-resistant and durable. BIOS- AMI BIOS, SPI interface, 16 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 260 pins- Supports DDR4-3200/2933/2666/2400/2133 (PC4-25600/23466/21300/19200/17000) SDRAM with 1,2 V- Supports dual-channel mode- Supports a maximum of 32 GB per slot- Maximum total capacity 64 GB- 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 port - Supports four independent displays via the integrated graphics function. 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 Serial-ATA III, 6 Gb/s (600 MB/s) data transfer rate- With Serial-ATA power connector (onboard) M.2-2280M SSD slot- The M.2 2280M slot offers the following interfaces:- PCI-Express Gen. 4.0 X4 supports NVMe- SATA v3.0 (max. 6 Gbit/s)- The M.2 2280M slot used must have a width of 22 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 or PCI Express interface M.2-2230E slot for WLAN cards- Interfaces: PCI-Express Gen. 2.0 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 accessories: WLN-M / WLN-M1) Sound function- Audio Realtek® ALC 897/662/888S High-Definition Audio- Two analogue 3.5 mm audio connectors on the front: 1) 2-channel line-out (headphones) 2) Microphone input- Digital multi-channel audio output via HDMI and DisplayPort Dual 2.5G network controller- Two RJ45 network ports, each with two status LEDs- Network chips used: 2x Intel i225 Ethernet Controller (MAC+PHY)PCIe interface- Supports Windows 10 Desktop and Windows Server operating system- Supports 100 / 1.000 / 2,500 Mbit/s data transfer rate- Supports 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 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 port, 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 Further 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 back panel connections- 1x USB 2.0 (4 pins) for optional accessories WWN03 (LTE kit)- 1x fan connection (4 pins) occupied by the cooling system- 1x connection for CMOS battery (occupied) Scope of delivery- Multilingual installation instructions (DE, EN, FR, ES, JP, KR, SC, TC)- VESA mount for 75/100mm standard (two metal brackets)- Four M3 x 5 mm screws (connects VESA mount to PC)- Four M4 x 10 mm screws (connects VESA mount to external attachment)- Four M3 x 4 mm screws (for mounting a 2.5" drive)- Two M3 x 5 mm screws (silver-coloured, for attaching two M.2-cards)- Driver DVD (Windows 64 Bit)- Serial ATA cable for 2.5" drive with power connection- External 120W power supply unit with power connection cable- Protective cap for the CPU socket (do not use if heatpipe or cooler are installed)- Thermal paste Optional accessories- PVG01:Optional D-Sub VGA video output [4]- WLN-M(802.11ac, Wifi 5) or WLN-M1(802.11ax, Wifi 6): WLAN module in M.2-2230 format with two external antennas supports WLAN 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- PRM01:2U rack panel for two Shuttle XPC slim PCs- DIR01:DIN rail mounting kit Environmental 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, ErP ConformityThis 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)3) Serial interfacesThis PC has two serial RS232 interfaces with 9-pin D-Sub connectors on the rear panel. 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 JP1 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-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 the DH670V2 also has a pure hardware solution. If you remove jumper JP2 (on the mainboard behind the power button), the PC will start as soon as the power supply is restored.[8] Optional accessories WWN03 (LTE kit)The Shuttle XPC accessory WWN03 accessory kit allows you to 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

