

Item no.: 375241

## SHUTTLE BPCWL02-i3XA Intel Core i3-8145UE 4GB DDR4 SODIMM 120GB SSD Intel UHD Gr

from 1.000,84 EUR

Item no.: 375241  
shipping weight: 3.90 kg  
Manufacturer: Shuttle



### Product Description

**FANLESS SHUTTLE BOX PC SYSTEM WITH INTEL CORE ULV PROCESSOR IN ROBUST HOUSING** Shuttle's new generation BPCWL0x series of Box PCs are robust, fanless industrial PCs with modular expansion options. BPCWL02-i3XA Industry is a fixed configuration with a selection of pre-installed I/O extensions for a wide range of applications in the industrial sector.

**ROBUST HOUSING**- Fanless cooling system - Robust aluminium/steel housing - Dimensions (LWH): 16.9 x 24.5 x 5.7 cm (2.7 L) - Net weight: 2.85 kg- Operating temperature: 0 - 40 °C - Permissible humidity: 0 - 90 % (non-condensing) - Protection class: IP30 - Mounting options: VESA 75x75 mm, Ear Mount 256x100 mm and DIN Rail

**OPERATING SYSTEM**- not included, supports Windows 10/11 and Linux (64-bit) **PROCESSOR**- Intel Core i3-8145UE, 2 cores, 4 threads, 2.2-3.9 GHz, 4 MB cache- "Whiskey Lake" ULV processor, 15 W TDP- Integrated Intel UHD 620 graphics function **RAM/SSD MEMORY**- 4 GB DDR4 RAM memory- 120 GB M.2-2280 SSD flash memory (PCIe / NVMe) **FRONT CONNECTORS\*\***- 2x COM (RS232/422/485) - 4x USB 2.0 - VGA D-Sub port **REAR CONNECTORS**- HDMI 1.4 - 4x USB 3.2 Gen 1 - DUAL Gigabit LAN (Intel i219LM/i211) - COM (RS232)- Microphone input and line-out (Realtek ALC662)- DC input (Spg.range: 9-36V) - Power button **OTHER EQUIPMENT**- Hardware TPM v2.0 Infineon SLB9670VQ2 onboard- AMI BIOS, 16 MB SPI ROM **POWER SUPPLY**- External 90W/19V power supply- AC input: 100-240V 50-60 Hz, 3-pin connector- The box PC supports a wide DC input voltage range from 9 to 36V - Fixed configuration: BPCWL02-i3XA Industry- Processor: Intel Core i3-8145UE- Operating system: No - M.2-SSD: 120 GB- RAM: 4 GB - Operating temp.: 0 ~ +40 °C- EAN code: 4046047103652 **SHUTTLE Box-PC System BPCWL02-i3XA Industry - SPECIFICATION** **FANLESS AND QUIET**- Equipped with passive cooling, therefore no fan noise- Ideal for noise-sensitive environments- Less contamination from dust - therefore virtually maintenance-free **24/7 CONTINUOUS OPERATION**- This device is officially approved for 24-hour continuous operation (24/7).- Prerequisite: Free air circulation in the PC's environment. **HOUSING**- Durable and robust housing made of aluminium and steel.- Passive cooling system with specially designed cooling fins ensures maximum heat dissipation.- Dimensions: 16.9 x 24.5 x 5.7 cm (LWH) = approx. 2.7 litres- Weight: approx. 3.0 kg net- Protection class: IP30 **OPERATING POSITION AND MOUNTING** 1) The appliance can be placed horizontally on its feet. 2) The device can be mounted using a 75 mm x 75 mm VESA bracket. To do this, four M4x6L screws are screwed into the housing from above. 3) The device can be attached using two 256 mm x 100 mm ear-mount brackets. To do this, four M3x6L screws are screwed into the housing from below. 4) Mounted on a standard 35 mm top-hat rail (DIN rail), e.g. in a control cabinet **Notes**: The VESA mount, ear mount and DIN rail clip are not included in the scope of delivery. Vertical mounting is permitted in any orientation. **OPERATING SYSTEM**- This barebone system is supplied without an operating system.- It is compatible with Windows 10/11 (Windows 10/11). It is compatible with Windows 10/11 (64-bit) and Linux (64-bit). **PROCESSOR**- Model: Intel Core i3-8145UE (ULV)- System-on-a-chip architecture (SoC) with integrated memory and graphics controller- FCBGA1528 housing - soldered directly onto the mainboard- Codename: Whiskey-Lake-U (8th generation Intel Core) - Core: Intel Core i3-8145UE (ULV) - Codename: Whiskey-Lake-U (8th generation Intel Core) - Core: Intel Core i3-8145UE (ULV) Generation Intel Core)- Cores / Threads: 2 / 4- Clock speed: 2.2 GHz, Turbo clock: 3.9 GHz- L3 Smart Cache: 4 MB- Power dissipation (TDP): max. 15 W- Manufacturing process: 3rd generation 14nm++ **INTEGRATED GRAPHICS**- Intel UHD Graphics 620- Graphics clock frequency: 300-1000 MHz- Execution units (EUs): 23- This box PC supports two independent displays via HDMI 1.4 and VGA. **UEFI BIOS**- Supports resume after power failure- Supports Wake on LAN (WOL)- Supports power on by RTC alarm- Supports booting from M.2 SSD cards and USB devices- AMI BIOS in 16 MB EEPROM with SPI interface- Supports hardware monitoring and watchdog function- Supports the Unified Extensible Firmware Interface (UEFI) **TPM MODULE**- Hardware Trusted Platform Module (Infineon SLB9670VQ2 TPM 2.0) **POWER SUPPLY**- External 90 W power supply unit (fanless)- Input: 100-240 V AC, 50/60 Hz- Output: 19 V DC, 4.74 A, max. 90 W- DC plug: 5.5/2.5 mm (outer/inner diameter)- AC cable: 3-pin, approx. 1.8 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 **DC INPUT**: 9-36 V- DC input with extended voltage range: 9-36 V- DC connector: 5.5 / 2.5 mm (outer/inner diameter) **RAM MEMORY**- 4 GB DDR4 SO-DIMM memory (260 pins)- Supports maximum 32 GB per slot, total capacity maximum 64 GB **M.2-SSD**- 120 GB SSD card in M.2-2280 format - Supports PCI Express format- Supports PCI-Express with NVMe **SOUND FUNCTION**- Audio Realtek® ALC662 or ALC888S High-Definition Audio- Two analogue 3.5 mm audio connectors on the rear: 1) 2-channel line-out (headphones) 2) Microphone input- Digital multi-channel audio output via HDMI and optional DisplayPort **DUAL GIGABIT LAN**- Two RJ45 network connections- Network chips used: 1) Intel i211 Ethernet controller with MAC, PHY and PCIe interface 2) Intel i219LM PHY connected to the MAC of the processor- Supports 10 / 100 / 1000 MBit/s data transfer rate- Supports WAKE ON LAN (WOL)- Supports booting from the network via Preboot eXecution Environment (PXE)- Supports teaming mode **CONNECTORS BACK**- Power button- HDMI 1.4- 4x USB 3.2 Gen 1 Type A (max. 5 Gbps)- 2x Intel Gigabit LAN (RJ45, i211/i219LM)- Serial COM port (RS232)- Microphone input (3.5 mm)- Audio line-out / headphones (3.5 mm)- DC input for external power supply (DC input supports 9-36V) **CONNECTORS FRONT**- 2x COM port (supports RS232/422/485)- 4x USB 2.0- 1x VGA D-Sub port **OPTIONAL ACCESSORIES** 1) Ear Mount brackets (mounting dimensions: 256 mm x 100 mm) 2) WLAN 802.11n/ac and BT 4.0 (RTL8821CE) with two external antennas **ENVIRONMENTAL PARAMETERS**- Permissible operating temperature range: 0-40 °C- Relative humidity, non-condensing: 0-90 % **CONFORMITY AND CERTIFICATES**- EMI: CE, FCC Class A, VCCI, RCM, BSMI- Safety: CB, cTUVus, BSMI- Other: RoHS, ErP, CEC- This device is categorised as Class A information technology equipment (ITE) and is primarily intended for use in commercial and industrial 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)

### Specifications

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