

Electric components

Front panel: OLED display 128x64 dot matrix, one green status LED and two buttons.

Mainboard with Raspberry Pi Compute Module

Processor: Broadcom BCM2711 Vierkern Cortex-A72 (ARM v8) 64-Bit SoC @ 1.5 GHz

Storage (eMMC): 8GB, **16GB**, 32GB without and via external microSD card.

RAM: 1 GB, 2 GB, **4 GB**, 8GB LPDDR4-3200 SDRAM

Standard CM4: CM4004016

Other compute modules optionally possible.

WLAN/Bluetooth: optional dual-band 2.4/5.0 GHz IEEE 802.11 b/g/n/ac Wireless LAN and Bluetooth 5.0, BLE.
External antenna can be mounted on the back of the housing.

PCI Express Riser: 2x PCIe(Gen2.0) slots x1 for installing standard height and half-length cards.
Power consumption for both slots maximum 24 watts.

Fan: 2x case fans, temperature-controlled.

Connections and interfaces

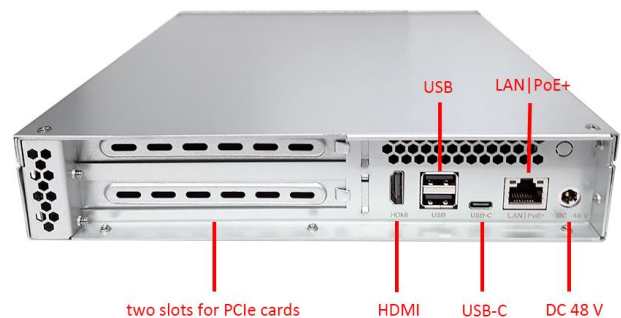
HDMI: 1x HDMI 2.0 maximum 60 FPS

Ethernet: Gigabit Ethernet; PoE+/PoE

USB: 2x USB 2.0

USB-C:

- Power supply via USB-C or
- USB data port with USB2.0 or
- for charging with a maximum of 1 A charging current at 5 V.



Internal connectors on the mainboard

1x USB 2.0 header
1x Micro-USB header for programming the image
40-pin GPIO header (unequipped)
CR2032 battery to power the real time clock (RTC)

Power supply:

- 48 V DC, wide range DC input from **24V to 48V; 36 watts**
- **USB-C** power supply with a minimum specification of 20V, 2A.
- **PoE+**, or **PoE** for low power requirements.

Please check the maximum power consumption for the application to ensure stable behaviour. The three inputs for the power supply have multiple redundancies and can also be used simultaneously if necessary to ensure reliability.

Power consumption during operation: 5 to 35 watts

Dimensions (width x height x depth): 222 mm x 44,45 mm x 239 mm
Weight without accessories and PCIe cards: 1.45 kg

Environmental conditions

Operating temperature: 50 °C to 80 °C
Ambient temperature: 5 °C to 40 °C
Relative humidity (operation): 0 % to 80 % (not condensing)

Package Contents

1x One-Box.tv/pro24, consisting of the above-mentioned components
4x Self-adhesive rubber feet. For desktop use, they can be glued to the corners of the outer case base.

Optional:

1x power supply 36 watts; 48 V DC; 750 mA; 1 m cable
1x bracket for 19" mounting (long)
1x bracket for 19" mounting (short, when installing two devices next to each other)
1x bracket for wall mounting

User Manuel: <https://www.tbs-technology.de/doc/obp24/user-manualOBP24.pdf>

Configuration options

One OBP-24 stand alone, with 4x self-adhesive rubber feet.
Dimensions in mm (width x height x depth): 222 x 44,45 x 239



One OBP-24, 19-inch 1U rack mounting, with 2x long brackets and screws.
Dimensions in mm (width x height x depth): 482 x 44,45 x 239



Two OBP-24 jointed, 19-inch 1U mounting with 2x short brackets and screws.
Dimensions in mm (width x height x depth): 482 x 44,45 x 239



One OBP-24, wall mounting, with 2x brackets and screws.
Dimensions in mm (width x height x depth): 262 x 44,45 x 239



Two OBP-24 jointed, wall mounting, with 2x brackets and screws.
Dimensions in mm (width x height x depth): 484 x 44,45 x 239



All trademarks and rights are the property of their respective owners.
The information provided is non-binding and subject to change at any time.
© 2024 TBS GmbH.