



iPad etc.

The USB-C connector is reserved only for powering and simultaneous charging of laptops using Power Delivery 3.0 technology with a power of up to 100W. Connect the USB-C Power Delivery charger to the hub and connect the hub to the laptop. This saves one USB-C port. The condition is a laptop with Power Delivery charging support from the USB-C port and a suitable PD charger.

Each of the three video outputs (2x HDMI + 1x DisplayPort) provides a high-quality image up to 4K/60Hz Ultra HD resolution. High frequencies at popular gaming resolutions of 2K/144Hz or FullHD/240Hz are also supported. Even when three monitors are connected at the same time, the docking station can provide a resolution of up to 4K/30Hz on each of them. Thanks to HDR (high dynamic range) support, you can enjoy a significantly expanded range of colors and contrasts without restrictions. DisplayPort Alternate Mode (DP Alt Mode) enabled USB-C port or Thunderbolt 3/4 port is necessary for the proper function of video output. Support for the above max. supported resolutions and frequencies requires connection to a computer with DisplayPort version 1.4.

Gigabit network card extends your computer by a fast network connection, adds the missing RJ-45 network connector or another network card.

Card reader supports all current versions of SD and microSD cards including SDXC and microSDXC with capacity up to 2TB. High data transfer speed ensured by USB 3.2 Gen 1 interface. The card reader enables simultaneous handling of cards in both slots and direct copying between them.

The robust aluminum body ensures mechanical resistance and quality cooling of the docking station. The wedge shape of the hub encourages its use as a laptop pad for better cooling and ergonomic positioning. Also, the included USB-C cable is designed to use the hub as a laptop pad, the optimal length of 40 cm together with the curved connector allows it to be almost entirely hidden under the laptop and contribute to the impression of a clean desk. The USB-C cable is detachable and can be replaced with a longer cable if needed.

Thanks to the Plug and Play and Hot Plug functions, connecting the hub itself is very simple without complicated installation, and peripherals can also be easily connected and disconnected while the computer is running.

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#### Input:

- USB 5Gbps (USB 3.2 Gen 1 / USB 3.0).
- Compatible with Thunderbolt 3/4.
- Connection via reversible USB type C female connector.

#### USB outputs:

- 2x USB 5Gbps port, USB-A female connector.
- 1x USB 480Mbps port, USB-A female connector.
- 1x Power Delivery port (power only), USB-C female connector.
- USB-C hub can handle the connection of several external drives at the same time.
- Charging of mobile devices (including iPad) with a current of up to 1.5A from the hub's USB-A ports.

#### Video outputs:

- 2x HDMI port, HDMI A female connector.
- 1x DP port, DisplayPort female connector.

#### Video resolution:

1 connected monitor in any of the video ports:

- 4K resolution 4096 x 2160 at up to 60Hz. \*
- 2K / WQHD resolution 2560 x 1440 at up to 144Hz (Mac via DP up to 165Hz). \*
- FHD resolution 1920 x 1080 at up to 240Hz (Mac max. 144Hz). \*

2 simultaneously connected monitors - up to 4K/60Hz on one monitor and 4K/30Hz on the other monitor. \*

3 simultaneously connected monitors - up to 4K/30Hz on all monitors. \*

\* Valid for connection to a computer with DisplayPort version 1.4.

- DisplayPort Alternate Mode (DP Alt Mode) enabled USB-C port or Thunderbolt 3 port is necessary for the proper function of video output. A suitable OS is also required. The video output function will not be available without these requirements.
- HDR (High dynamic range, 10-bit support) support - realistic reproduction of light and dark details.
- HPD (Hot-Plug-Detect) support.

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- TMDS (Transition Minimized Differential Signalling) support.
- HDCP 1.4 and 2.3 (High-bandwidth Digital Content Protection) support.
- Support for 2-channel audio sampling rate up to 48kHz and up to 24-bit audio - depends on source and end device, i.e. laptop/phone and TV/monitor/AV receiver.

Display mode support in Windows:

- Mirroring or expanding the surface of the primary monitor on each of up to three connected monitors.
- Each of the connected monitors can display either the mirrored or extended surface of the primary monitor as needed, e.g. one monitor will display the mirrored surface of the primary monitor and the other two monitors will display two different extended surfaces.

Display mode support in MacOS:

- Mirroring the surface of the primary monitor on all up to three connected monitors.
- Expansion of the primary monitor area on one of the connected monitors + mirroring of the primary monitor area on up to two other connected monitors.
- Expanding the area of the primary monitor on one of the connected monitors + mirroring the extended area of the first monitor on up to two other connected monitors.

RJ-45 output:

- Gigabit Ethernet interface with RJ-45 connector for UTP or STP cable connection.
- Supported transmission rates for the Ethernet interface 10/100/1000 Mb/s.
- Supported IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T specifications.
- 10/100/1000 Mbit/s auto-detection.
- Supports IPv4 / IPv6 packet Checksum Offload Engine (COE) to reduce processor load, including IPv4 IP/TCP/UDP/ICMP/ IGMP & IPv6 TCP/UDP/ICMPv6 checksum control and generation.
- Supports TCP Large Send Offload V1 and V2.
- Supports IEEE 802.1P Layer 2 priority encoding & decoding.
- Supports IEEE 802.1Q VLAN tagging.
- Supports IEEE 802.3az EEE (Energy Efficient Ethernet) - reduce power consumption at rest.
- Supports Jumbo frame.
- Supports full-duplex transmissions with IEEE 802.3x flow control and half-duplex transmissions with back-pressure flow control.

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- Supports Auto MDI/MDIX - crossover detection and auto-correction eliminates the need for crossover cables.
- Supports hardware Cyclic Redundancy Check (CRC) to detect transmission errors.
- Supports Pair Swap/Polarity/Skew Correction.
- Wake-on-LAN function in different modes: Supports sleep mode and remote Wake Up via Magic Packet, Microsoft Wakeup Frame, Microsoft Wake Packet Detection, ECMA-393 proxZzy® for sleeping hosts, RealWoW! and also Link Change Wake-up.
- Advanced Power Management features: The adapter supports advanced power management and supports advanced power saving e.g. when the Ethernet cable disconnection. Supported Power Management technologies are e.g. Advanced Configuration Power management Interface (ACPI), Link Power Management (LPM) or IEEE 802.3az EEE (Energy Efficient Ethernet) and others. Two LEDs to indicate network activity and connection of the adapter to USB and network.

Audio output / input:

- 1x 3.5 mm jack for headset, headphones or active speakers,
- 2-channel analog stereo output 48 kHz @ 16 bit for playback,
- 1-channel analog mono microphone input 48 kHz @ 16 bit for recording.

The card reader - two slots:

- Micro SD slot: microSD / microSDHC / microSDXC / TransFlash.
- SD slot: Digital / SDHC / SDXC, MultiMedia Card, MMC 4.0, MMC Dual Voltage, MMC mobile, RS-MMC, with adapter miniSD, microSD / microSDHC / microSDXC, MMC Micro.

The reader supports the following flash card specifications:

- SD 1.0/1.1 (SD - Secure Digital, up to 2GB).
- SD 2.0 (SDHC - Secure Digital High Capacity, up to 32GB).
- SD 3.0 (SDXC - Secure Digital eXtended Capacity, up to 2TB),
- MMC and eMMC 3.x / 4.0 / 4.1 / 4.2 / 4.3 / 4.4 / 4.5 / 5.0 (8-bit).
- Supports SD 3.01 and SD Jukebox applications (CPRM functions).
- Supports Ultra High Speed bus UHS-I (SDR12/SDR25/SDR50/DDR50/SDR104) speeds up to 104 MB/s.
- Supports hardware ECC (Error Correction Code) function and CRC (Cyclic Redundancy Check) function.

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- 2 LUN - the reader is indicated as two disk drives in the file manager.

#### Power Delivery:

- Power Delivery 3.0 support - device power supply from the wall charger via USB-C hub.
- Maximum power supply power via PD USB-C hub output 100W - 20V/5A.
- Required PD support from the device (laptop, phone) and a suitable PD wall charger.

#### Other features:

- Possibility to connect your device while running thanks to the Hot Plug support.
- Full Plug and Play support.
- Standby mode support.
- Power via USB bus - USB bus power or from PD wall charger.
- Heavy-duty aluminum body for better hub cooling. Higher surface hub temperature is not a problem - the heat generated by the hub operation is better dissipated and transferred to the surroundings.
- High quality shielded cable ensures fast communication speed and minimal unwanted interference.
- Dimensions 256 x 90 x 23 mm.
- Weight 317 g (without cable).
- USB-C male / male cable length 40 cm.

#### Supported operating systems:

- Microsoft Windows 10 / 11, Mac OS, Linux, Android and Chrome OS.

Compatibility depends on used OS and support from device manufacturer.

- Note 1: Drivers are included with supported operating systems and are installed automatically. No other drivers need to be installed.
- Note 2: DisplayPort Alternate Mode (DP Alt Mode) is only supported in updated OS and also depends on support from device (notebook, phone) manufacturer.

#### Package contains:

- USB-C hub,
- USB-C cable 40 cm long,
- multilingual manual in CZ / DE / DK / ENG / ESP / FIN / FR / GR / HR / HU / IT / NL / PL / PT / RO / RU / SK / SWE / TR / BG / CN / ARA,

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- packed in a cardboard box with a hanging hole.

Summary: Axagon HMC-4KX3 USB 5Gbps hub, 3x USB-A, 2x HDMI, DP, RJ-45, SD/microSD, audio, PD 100W. Connectivity technology: Wired, Host interface: USB 3.2 Gen 1 (3.1 Gen 1) Type-C, USB Power Delivery up to: 100 W. Ethernet LAN data rates: 10,100,1000 Mbit/s, Networking standards: IEEE 802.1Q, IEEE 802.1p, IEEE 802.3, IEEE 802.3ab, IEEE 802.3az, IEEE 802.3u, IEEE 802.3x. Product colour: Grey, Compatible memory cards: MMC, MMC Mobile, MicroSD (TransFlash), MicroSDHC, MicroSDXC, MiniSD, MiniSDHC, RS-MMC, SD, SDHC,...., Data transfer rate: 5 Gbit/s. Power source type: USB, Power connector: USB Type-C, USB cable length: 0.4 m. Width: 256 mm, Depth: 90 mm, Height: 24 mm | Vendor Homepage: <https://www.axagon.eu/en/produkty/hmc-4kx3> | Combo headphone/mic port: Yes | Connectivity technology: Wired | DisplayPort version: 1.4 | DisplayPorts quantity: 1 | HDCP: Yes | HDCP version: 1.4/2.3 | HDMI ports quantity: 2 | HDMI version: 2.3 | Headphone connectivity: 3.5 mm | Headphone outputs: 1 | Host interface: USB 3.2 Gen 1 (3.1 Gen 1) Type-C | USB 2.0 ports quantity: 1 | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity: 2 | USB Power Delivery (USB PD): Yes | USB Power Delivery revision: 3.0 | USB Power Delivery up to: 100 | USB Type-C DisplayPort Alternate Mode: Yes | Auto MDI/MDI-X: Yes | Ethernet LAN: Yes | Ethernet LAN (RJ-45) ports: 1 | Ethernet LAN data rates: 10/100/1000 | Full duplex: Yes | Jumbo frames support: Yes | Networking standards: IEEE 802.1p/IEEE 802.1Q/IEEE 802.3/IEEE 802.3ab/IEEE 802.3az/IEEE 802.3u/IEEE 802.3x | Wake-on-LAN ready: Yes | Brand compatibility: Universal | Card reader integrated: Yes | Certification: CE, RoHS | Charging function: Yes | Compatible memory cards: MicroSD (TransFlash)/MicroSDHC/MicroSDXC/MiniSD/MiniSDHC/MMC/MMC Mobile/RS-MMC/SD/SDHC/SDXC | Country of origin: China | Data transfer rate: 5 | HD type: 4K Ultra HD | Hot-Plug support: Yes | Housing material: Aluminium | Hub interfaces: 3.5mm/DisplayPort/HDMI/RJ-45/USB 2.0/USB 3.2 Gen 1 (3.1 Gen 1) Type-A/USB 3.2 Gen 1 (3.1 Gen 1) Type-C | LED indicators: Yes | Maximum digital resolution: 4096 x 2160 | Maximum refresh rate: 240 | Plug and Play: Yes | Product colour: Grey | Built-in microphone: No | Built-in speaker(s): No | Built-in fan: No | Power connector: USB Type-C | Power source type: USB | USB cable length: 0.4 | Linux operating systems supported: Yes | Mac operating systems supported: Yes | Mobile operating systems supported: Yes | Other operating systems supported: Yes | Server operating systems supported: Yes | Windows operating systems supported: Yes | Depth: 90 | Height: 24 | Weight: 317 | Width: 256 | Package depth: 135 | Package height: 35 | Package weight: 420 | Package width: 270 | Quantity per pack: 1 | Cables included: USB Type-C to USB Type-C | Manual: Yes | Compliance certificates: RoHS | Warranty period: 2 | Model: HMC-4KX3 | Units per Pallet: 0 | Units per Shipping Box: 20 | Unit Calculated Volume: 0.00138 | Unit Calculated Weight: 0.529

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