


# Axagon ADE-AM20 USB-A Gigabit Ethernet adapter with integrated CAT6 RJ-45 network cable (2 m)

Model: ADE-AM20

Manufacturer: AXAGON

EAN: 8595247909671

Product Code: 1722137

# R848

## Gigabit Ethernet connection via USB-A up to 1 Gbps

With the external USB network adapter AXAGON ADE-AM20, you can easily connect devices (notebook or computer) to the internet or local LAN network. Just plug it into the device’s USB-A port and connect the integrated CAT6 network cable with the RJ-45 connector directly into the network. Without an additional Ethernet cable, you get a stable wired connection with speeds up to 1 Gbps, all without installing drivers. Compared to Wi-Fi, a wired connection offers lower latency, more stable data transmission, and higher internet connection reliability.

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The adapter also supports advanced network features such as Wake-on-LAN, VLAN, Jumbo Frames, or precise PTP/gPTP time synchronization. It is ideal for working from home, video conferencing, fast backup to NAS, or gaming (e.g., Nintendo Switch with a wired connection). It is also suitable for situations where a notebook or other device does not have a LAN port or its port is damaged.

## Direct network connection thanks to 2 m CAT6 cable

The F/UTP CAT6 network cable with a length of 2 meters allows convenient connection even to a more distant network outlet. You can easily plug the adapter directly without additional extension cables, whether on a desk, meeting room, or at home. The cable can be simply hidden in a cable duct and left permanently connected to the data outlet. For maximum flexibility, it is also available in other lengths and USB-C cable variants.

## Stable connection for NAS, data transfer, and online work

The adapter supports transfer speeds up to 1 Gbps (10/100/1000 Mbps) and can be used, for example, for backing up data to a network disk (NAS), transferring large files between devices, or connecting to corporate networks with higher data traffic. The wired connection additionally eliminates dropouts and signal fluctuations typical for Wi-Fi.

## Wake-on-LAN, VLAN, Jumbo Frames, and PTP for advanced networks

The network card with ASIX AX88179B chip offers a range of advanced functions for home and corporate networks. Wake-on-LAN allows remote waking of a computer, VLAN (IEEE 802.1Q) is used to separate network traffic, and Jumbo Frames up to 9 kB can improve the efficiency of transferring large amounts of data, for example between a computer and NAS. Support for IEEE 802.1P enables prioritization of network traffic and PTP (IEEE 1588v2) and gPTP (IEEE 802.1AS) provide precise time synchronization of devices in the network. The IPv4/IPv6 Checksum Offload and TCP Large Send Offload technologies offload part of the network communication processing to the adapter, helping to reduce CPU load. It also features AUTO-MDIX, which automatically detects cable connection type.

## Wide compatibility without driver installation

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The network adapter/cable supports Windows, macOS, Linux, iPadOS, iOS, and Android operating systems. Thanks to automatic installation, just connect the adapter and you can use it immediately without the need to install drivers. It is easy to use with desktop computers, notebooks, ultrabooks, tablets, or mobile phones that support wired Ethernet connection. It is also compatible with the Nintendo Switch gaming console, making it a simple way to ensure stable wired connection while gaming. To connect to devices with USB-C, a suitable USB-A adapter can be used, for example AXAGON RUCM-AFA.

## Aluminum body, durable braid, and quality shielding

The elegant aluminum body reliably protects electronics from mechanical damage, and the durable cable braid increases resistance to everyday use. The aluminum body also effectively dissipates heat generated during operation. Quality shielding with foil and grounding conductor minimizes electromagnetic interference and contributes to stable data transmission. Because of this, the adapter is a reliable choice even in environments with increased electromagnetic interference, such as offices, server rooms, or industrial facilities.

Input (connection to notebook):
• USB 5Gbps (USB 3.2 Gen 1 / USB 3.0), USB-A male connector,
• compatible with USB 480Mbps, USB 10Gbps, USB 20Gbps, USB 40Gbps, and Thunderbolt 3/4/5.

Output:
• Gigabit Ethernet interface, RJ-45 male connector,
• supported Ethernet interface transfer speeds 10/100/1000 Mbps,
• supported IEEE 802.3i 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T specifications,
• 10/100/1000 Mbps autodetection,
• support for IPv4/IPv6 Packet Checksum Offload Engine (COE) to reduce CPU load including IPv4 IP/TCP/UDP/ICMP/IGMP & IPv6 TCP/UDP/ICMPv6 checksum checking and generation,
• support for TCP Large Send Offload V1 and V2,
• support for IEEE 802.1P Layer 2 Priority Encoding and Decoding,
• support for IEEE 802.1Q VLAN tagging,
• support for filtering up to 4096 VLAN IDs,
• support for IEEE 802.3az EEE (Energy Efficient Ethernet) – power reduction in idle state,

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• support for IEEE 802.3 Annex.31B Flow Control,
• support for IEEE 1588v2 PTP (Precision Time Protocol) and IEEE 802.1AS gPTP (Generalized Precision Time Protocol),
• support for up to 9K Jumbo Frame,
• support for L2 MAC address filtering,
• support for L3/L4 IPv4/IPv6 IP/Port filtering,
• support for Auto-MDI/MDIX – crossover detection and autocorrection eliminates the need for crossover cables.

Additional features:
• F/UTP Cat6 cable,
• full Plug and Play and Hot Plug support,
• CDC-ECM support for automatic driver installation across different OSes,
• CDC-NCM support for native driverless installation on iOS/iPadOS/macOS/Linux,
• iPXE support for network booting,
• USB bus power – no additional power supply needed,
• support for direct connection between two devices (point-to-point, without the need for a switch or router),
• ASIX AX88179B chipset.

Wake-on-LAN support in various modes:
• Support for sleep mode and remote wake-up via Magic Packet, Microsoft Wake-up Frame, and Link Change wake-up,
• Bonjour Wake-on-Demand support,
• Wakeup Packet Indication support,
• Microsoft Modern Standby support.

Advanced Power Management features:
• Power Management Offload support (ARP and NS),
• IEEE 802.3az EEE (Energy Efficient Ethernet) support,
• ECMA-393 proxZzzy® standard support for managing network connectivity of sleeping hosts via proxy servers.

Other details:
• Dimensions of active part with USB-A: 65 × 18 × 8 mm (W × D × H)

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• Outer cable diameter: 5 mm
• Conductors: 28 AWG
• Cable length: 2 m
• Weight: 72 g

Supported operating systems:
• Windows (min. 8.1 and later), macOS, Linux, iPadOS, iOS, Android, Nintendo Switch system software.
• To connect mobile phones, tablets, and other devices with USB-C, a suitable USB-A adapter can be used, for example AXAGON RUCM-AFA.

Package contents:
• 2 m long USB-A – RJ-45 Gigabit Ethernet cable,
• multilingual manual CZ / DE / DK / ENG / ESP / EST / FIN / FR / GR / HR / HU / IT / LT / LV / NL / NOR / PL / PT / RO / SK / SLO / SRB / SWE / TR / UA / ALB / BG / BOS / CN / ARA,
• packed in a cardboard box with a hanging hole.

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