DATASHEET

Gigabit USB-C network adapter







General data

10/100/1000Mbps transmission speed
Minimizes power consumption through modern energy efficiency (IEEE-802.3az)
4K jumbo frames for high transfer rates
Integrated Wake-on-LAN for remotely starting computers
Supports IPv4/IPv6 network operation
No additional power supply required
Multi-platform support: Windows, Mac OS, Linux
No manual driver installation for Nintendo Switch

The LevelOne USB-0402 Gigabit USB-C network adapter, the connection to the Internet via the USB-C port of your laptop and at the same time. The ideal solution for MacBook or other Windows computers that have wireless LAN but do not have their own Ethernet port. Sometimes you need a LAN connection to transfer data or gain access to sensitive data. The USB-0402 takes on this task and controls everything via the USB-C port. The USB-0402 is compatible with USB1.0, 2.0 and 3.0. It also follows the Ethernet standards 802.3/3u and 802.3ab, which enable Gigabit Ethernet speeds of up to 1000Mbit/s. This speed is suitable for all high-speed broadband Internet connections as well as for fast data transfers on the LAN. This makes the USB-0402 the best choice for reliability, efficiency and standards compliance.

General
Silver color

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Features
● Supports all USB 3.0 power saving modes (U0, U1, U2, and U3)
● Supports USB Super/High/Full Speed modes with Bus-power or Self-power device auto-detect capability
● High performance packet transfer rate over USB bus using proprietary burst transfer mechanism (US Patent Approval)
● Supports dynamic cable length detection and dynamic power adjustment Green Ethernet (Gigabit mode only)
● Supports parallel detection and automatic polarity correction
● Supports IPv4/IPv6 packet Checksum Offload Engine (COE) to reduce CPU loading, including IPv4 IP/TCP/UDP/ICMP/IGMP & IPv6 TCP/UDP/ICMPv6 checksum check & generation
● Supports TCP Large Send Offload V1
● PHY loop-back diagnostic capability
● Support Wake-on-LAN Function
● Supports Bonjour wake-on-demand
● Single 25MHz clock input from either crystal or oscillator source

Miscellaneous
Data rate Gigabit Ethernet
Host interface USB-C
Network Card Type Wired

Others
Approvals and Compliance
● CE
● RoHS
Operating temperature 0°C ~ 50°C
Supported Operating Systems
● Linux
● Windows XP/Vista/7/8/10
● macOS X 10.9/10/11/12/13/14/15
● macOS Big Sur 11.3
● macOS Monterey 12.0.1
Scope of delivery • USB-0402
• Quick Installation Guide
• Resource CD (User Manual, QIG, Driver)

Physical Specifications
Dimensions (W x D x H) 23.5 x 16.5 x 245 mm
Product weight (kg) 0.0245

System specifications
Jumbo frames (KB) 4
Power supply USB-C power
Standards
● IEEE 802.3: 10Base-T (Ethernet)
● IEEE 802.3u: 100Base-TX (Fast Ethernet)

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- IEEE 802.3ab: 1000Base-T (Gigabit Ethernet)
- IEEE 802.3x Flow Control (full-duplex flow control)
- IEEE 802.3az Energy Efficient Ethernet
- IEEE 802.1P layer 2 Priority Encoding and Decoding
- IEEE 802.1Q VLAN tagging and 2 VLAN ID filtering; received VLAN Tag (4 bytes) can be stripped off or preserved

Technical properties	
Gigabit Ethernet	True
Number of other ports	1
Number of ports 10/100/1000 Mbps RJ45	1

Available variants

ArtNr.	Bezeichnung	Flush-mounted installation	Suitable for DIN rail (top hat rail) mounting	Suitable for wall mounting
USB-0402	Gigabit USB-C network adapter	False	False	False

Note on Intended Use

This data sheet is intended solely to describe the technical characteristics of the product. It does not replace an assessment of the product's suitability for a specific application. The user is responsible for ensuring that the product is used in accordance with its technical specifications and applicable legal and regulatory requirements.

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