UMC Series

Fast Ethernet and Gigabit USB Media Converters

Allied Telesis UMC200 and UMC2000 USB media converters are the perfect fit for today's USB-A technology, as well as for next-generation USB-C specifications. This allows the UMC200/2000 Series to take advantage of technology in both older and newer notebooks, desktop PCs and digital devices.

Overview

The current standard USB connector is USB Type-A. Even as the world has moved from USB 1 to USB 2 and on to modern USB 3 devices, that connector has stayed the same. Since it only plugs in one way, it has always been necessary to make sure it is correctly oriented before plugging in.

However, with USB-C, both ends of the cable are the same, allowing for reversible plug orientation. It can also be plugged in upside down as it will function both ways.

The time of differently-shaped connectors for differently-sized devices is coming to a close. USB Type-C is a new connector standard, and it is very small—about one third the size of the old USB Type-A plug.

The UMC200/2000 series comes with two types of USB cables, allowing for use with older USB-A and the new USB-C products.

Extended network

UMC200/2000 Series converters are ideal for extending a fast Ethernet or Gigabit network. The series is designed to be a mobile system to extend the distance of a network by utilizing a USB-A or USB-C port with connectivity to fiber-optic cabling. The UMC200/2000 series features a USB (Type A or C) port and a fiber-optic port with either an SC, ST or LC connector, depending on the model.

VLAN support

Many new backbone switch products now support the industry-standard IEEE 802.1Q specification for Virtual LANs (VLANs), which send extra-long data packets on the network.
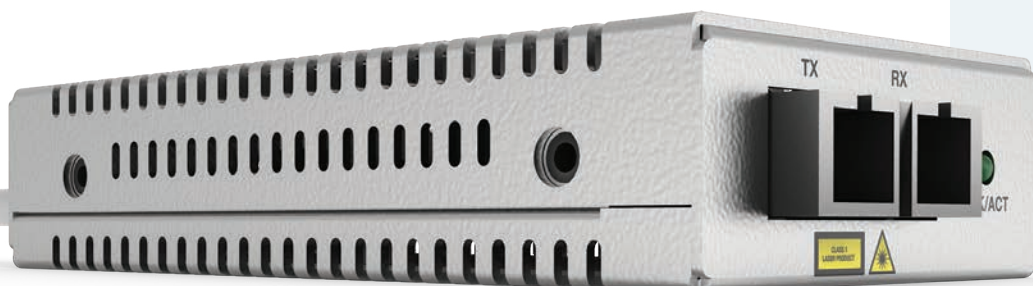
Some media converters don't support this feature and discard extra-long packets—but UMC200/2000 converters are fully compatible with these long packets, making them the perfect solution for today's modern networks.

Small and flexible

The small size and external power of the UMC200/2000 Series allows them to be used almost anywhere.

Key Features

▶ Suspend mode and remote wakeup via link-change, Magic Packet and Microsoft wakeup frame.

▶ Power management offload (ARP & NS).

▶ Dynamic power management to reduce power dissipation during idle or light traffic.

▶ AutoDetach power saving. Soft-disconnected from USB host when Ethernet cable is unplugged.

▶ Advanced link-down power saving if Ethernet cable is unplugged.

▶ IPv4/IPv6 packet Checksum Offload Engine (COE) to reduce CPU loading, including IPv4 IP/TCP/UDP/ICMP/ IGMP & IPv6 TCP/UDP/ICMPv6 checksum check and generation.

▶ TCP Large Send Offload V1.

▶ 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.

▶ Jumbo frames up to 4KB.

UMC Series | Fast Ethernet and Gigabit USB Media Converters

MODEL	FIBER TYPE	FIBER-OPTIC DIAMETER	OPTICAL WAVELENGTH	LAUNCH POWER (dBm)		RECEIVE POWER (dBm)			MAX DISTANCE
				Min	Max	Min	Typical	Saturation	
UMC200/XX	MMF	62.5/125	1310 nm	-20	-14	-32	-34	-3	2 km
UMC2000/XX	MMF	50/125	850 nm	-9.5	-4	-17	-20	-3	500 m
	MMF	62.5/125	850 nm	-9	-4	-17	-20	-3	220 m

Specifications

Status LEDs
USB
ON   USB link is operating at SuperSpeed
OFF   USB link is not operating at SuperSpeed

LAN fiber port
ON   Fiber link is established
OFF   No Link
Blink: LAN Activity

Physical Specifications
Dimensions   5.49 cm × 10.16 cm × 2.18 cm
(W × D × H)   2.16 in × 4 in × 0.86 in
Weight   6 oz

Power Characteristics
USB-C USB connector, 5VDC
Powered from a PC USB port

Environmental Specifications
Operating temperature   0°C to 50°C (32°F to 122°F)
Operating humidity   5% to 95% relative humidity (non-condensing)
Storage temperature   -30°C to 70°C (-22°F to 158°F)
Storage humidity   5% to 95% relative humidity (non-condensing)
Altitude   Up to 3048 m (10000 ft)

Electrical and Mechanical Approvals
Safety   UL60950-1
    EN60950-1

Emissions (EMI)   FCC Class A
    EN55022
    EB55032
    CISPR 22 Class A
    C-TICK
    VCCI

Ordering Information

AT-UMC200/SC-901
USB (-A or -C) to 100SX/SC Fast Ethernet mini media converter with multi-mode SC fiber connector, TAA Compliant

AT-UMC200/ST-901
USB (-A or -C) to 100SX/ST Fast Ethernet mini media converter with multi-mode ST fiber connector, TAA Compliant

AT-UMC2000/SC-901
USB (-A or -C) to 1000SX/SC Gigabit mini media converter with multi-mode SC fiber connector, TAA Compliant

AT-UMC2000/LC-901
USB (-A or -C) to 1000SX/LC Gigabit mini media converter with multi-mode LC fiber connector, TAA Compliant

Allied Telesis

NETWORK SMARTER