

DMC Series

Copper to Fiber Mini Media Converters

Allied Telesis DMC Series media converters are among the smallest in the market today, and can be powered by either standard power adapter or USB.



Overview

At just 1.25 × 3.6 × 0.85 inches, the Allied Telesis DMC Series can easily fit into the palm of a hand. In addition to being compact—with a small carbon footprint—the DMC Series can be powered with the included Micro USB-to-USB cable, or via the standard AC/DC adapter. Using the USB option saves installation time and cabling, as there are no further power requirements.

Fiber connections

The Allied Telesis range of Gigabit media converters provides a complete family of conversion devices, allowing users to extend the size of UTP networks with fiber cabling. Supporting SC, ST and LC fiber connectors, these converters can be used to extend networks with up to 500m of multi-mode fiber.

VLAN support

Many new backbone switch products now support the industry-standard IEEE 802.1Q specification for Virtual LANs (VLANs) that send data packets on the network. DMC Series media converters are fully compatible with these packets, enabling them to be used in modern networks. Media converters that do not support this feature discard these packets, making them unsuitable for today's networks.

Smart MissingLink (SML)

The Smart MissingLink™ (SML) feature monitors network connections and provides notification when network segments fail, allowing network managers to quickly identify the source and location of failed segments and minimize downtime.

Simple installation

All Allied Telesis media converters feature auto MDI/MDI-X, allowing the converter to be connected to either a PC, hub or switch with a simple UTP cable. DMC Series media converters also allow the installer to test the integrity of the fiber connection, by forcing converters to communicate over the fiber cable. This 'link test' feature allows installers to check for cable faults—without the need for expensive fiber-optic test equipment.

Smart link restoration

In cases of power failure, link loss or other interrupted service, smart link restoration allows the DMC Series to automatically restore the link, without the need to restart or reset.

Power saving

The DMC Series continues the Allied Telesis commitment to the environment with over 50% power savings.* With just 1.5W of power usage, DMC Series media converters are some of the most efficient in the market today.

*Over previous models

Key Features

- ▶ Auto-negotiation
- ▶ Transparent to IEEE 802.1Q packets
- ▶ Auto MDI/MDI-X
- ▶ Smart MissingLink
- ▶ Smart link restoration
- ▶ Link test
- ▶ RoHS-compliant
- ▶ Wall-mountable using DMCWLMT (sold separately)
- ▶ Available in TAA (Trade Agreement Act) Compliant models (-90)
- ▶ Compact size

PRODUCT	FIBER TYPE	FIBER-OPTIC DIAMETER	OPTICAL WAVELENGTH	LAUNCH POWER (dBm)		RECEIVE POWER (dBm)			MAX DISTANCE
				Min	Max	Min	Typical	Saturation	
DMC100	MMF	50/125	1310 nm	-19	-14	-32	-34	-3	2 km
	MMF	62.5/125	1310 nm	-22.5	-14	-32	-34	-3	2 km
DMC1000	MMF	50/125	850 nm	-9.5	-4	-17	-20	-3	550m
	MMF	62.5/125	850 nm	-9	-4	-17	-20	-3	220m

Specifications

Status LEDs

SYS	
ON	System operating normally
OFF	System not running normally
Blink	Fault condition

Fiber	
OFF	No link is established
ON	Link is established
Blinking	Activity is detected

RJ45 port (Left)	
OFF	No link is established
ON	Link is established
Blinking	Activity is detected

RJ45 port (Right)	
OFF	Half duplex
ON	Full duplex
Blinking	Collisions occurring

Operational Characteristics

Forwarding/filtering rate	1,488,00pps for 1000Mbps
	148,880pps for 100Mbps
	14,880pps for 10Mbps

Physical Specifications

Dimensions	
SC models	3.49 cm × 9.21 cm × 2.54 cm
(W × D × H)	1.38 in × 3.63 in × 1 in
ST models	3.49 cm × 9.91 cm × 2.54 cm
(W × D × H)	1.38 in × 3.90 in × 1 in
LC models	3.49 cm × 9.56 cm × 2.54 cm
(W × D × H)	1.38 in × 3.75 in × 1 in
Weight	4 oz

Power Characteristics

Powered by	
Micro to USB to USB	5VDC cable
or	
External power Supply	100-240VAC, 50/60Hz
Input Supply Voltage	5V
Max Current	400mA
Typical Power Consumption	1.4W

Environmental Specifications

Operating temperature	0°C to 40°C (32°F to 104°F)
Operating humidity	5% to 95% relative humidity (non-condensing)
Storage temperature	-15°C to 65°C (5°F to 149°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 Class A CISPR 22 Class A C-TICK VCCI
Immunity	EN55024 EN61000-3-2 EN61000-3-3

Ordering Information

AT-DMC100/SC-xx
100TX to 100FX/SC Fast Ethernet Media Converter

AT-DMC100/ST-xx
100TX to 100FX/ST Fast Ethernet Media Converter

AT-DMC100/LC-xx
100TX to 100FX/LC Fast Ethernet Media Converter

AT-DMC1000/SC-xx
1000T to 1000SX/SC Gigabit Ethernet Media Converter

AT-DMC1000/ST-xx
1000T to 1000SX/ST Gigabit Ethernet Media Converter

AT-DMC1000/LC-xx
1000T to 1000SX/LC Gigabit Ethernet Media Converter

Associated Components

AT-DMCWLMT-005
Wall mount for DMC Series media converters (5 pack)

Where xx = 00 for USB power cable only (no external PSU)
30 for UK Power Supply & USB cable
50 for EU Power Supply & USB Cable
90 for NA Power Supply & USB Cable, TAA



617-000564 RevH