



Black Box Micro Mini Media Converters

Ultra-compact converters bring fiber to the desktop and other tight spaces.



Features:

- Bring fiber to the desktop conveniently and cost-effectively.
- Smallest media converters available; tuck them unobtrusively behind a PC.
- Ultra compact and weigh less than 2.5 ounces.
- USB-powered for portability, or use a model with a country-specific AC/DC adapter.
- Plug-and-play capability with autonegotiation.
- Fiber port supports 100BASE-FX or 1000BASE-X, depending on model.
- Small Form Pluggable (SFP) transceivers or fixed fiber connectors (SC, ST).
- Multimode and single-mode fiber options.
- UTP port supports 10/100/1000BASE-T.
- Supports Jumbo Ethernet frames up to 10,240 bytes.
- LED indicators for power, UTP, and fiber status.

Black Box® Micro Mini Media Converters are ideal for mobile applications where light weight, compact size, and low power requirements are critical.

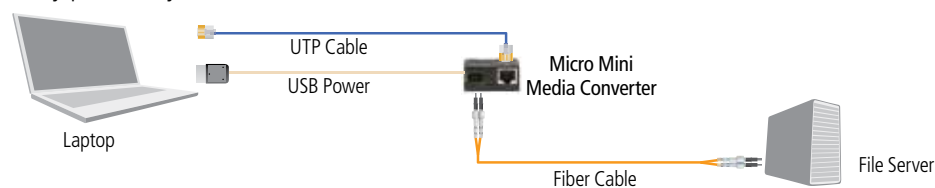
Weighing less than 2.5 ounces and about the length of a house key, these ultra-compact media converters are portable yet powerful. They can be USB-powered, making it easy to provide fiber connectivity to locations where AC or DC power is unavailable, such as field-deployed fiber-to-the-laptop. They conveniently slip into a pocket or laptop carrying case for easy portability.

Micro Mini Media Converters are plug-and-play with an RJ-45 port that autonegotiates for speed, duplex mode, and crossover functions for laptops with 10BASE-T, 100BASE-TX, and 1000BASE-T Ethernet. Available with 100BASE-FX or 1000BASE-X fixed fiber transceivers, they support multimode and single-mode options, as well as SFPs. SFP transceivers make it easy to adapt to different fiber types, speeds, and distances.

Connect the media converter to a laptop using two cables. The USB power cable draws current from the laptop's USB 1.0 or 2.0 port. The UTP cable connects the laptop to the copper port on the converter. The converter then provides 10/100/1000BASE-T UTP to 100BASE-FX or 1000BASE-X fiber conversion, which can extend the fiber link up to 60 kilometers via SFP.

When plugged into a computer's USB port, the media converter shuts down automatically when you turn off the computer, which saves energy.

Micro Mini Media Converters are excellent solutions for fiber-to-the-laptop applications where you need Gigabit fiber connectivity but local power isn't available.



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Item Description	Code
10-/100-/1000-Mbps Copper to 100-Mbps Fast Ethernet Duplex Fiber	
SFP Converter	LMC400A
Multimode, 1310-nm, 5 km, ST	LMC401A
Multimode, 1310-nm, 5 km, SC	LMC402A
Single-mode, 1310-nm, 30 km, ST	LMC403A
Single-mode, 1310-nm, 30 km, SC	LMC404A
10-/100-/1000-Mbps Copper to 1000-Mbps Gigabit Ethernet Duplex Fiber	
SFP Converter	LMC4000A
Multimode, 850-nm, 0.5 km, ST	LMC4001A
Multimode, 850-nm, 0.5 km, SC	LMC4002A
Single-mode, 1310-nm, 12 km, ST	LMC4003A
Single-mode, 1310-nm, 12 km, SC	LMC4004A
Wallmounting Bracket (Optional)	LMC400-WALL

SFPs

Category	Type	SKU	MM or SM	Wavelength	Distance	DDM Support	Connector Type	Power Budget	Operating Temperature
1000-Mbps Gigabit	SFP	LFP411	Multimode	850 nm	550 m	Yes	LC	7.5 dBm	-40 to +185° F (-40 to +85° C)
	SFP	LFP412	Multimode	1310 nm	2 km	Yes	LC	10 dBm	-40 to +185° F (-40 to +85° C)
	SFP	LFP413	Single-mode	1310 nm	10 km	Yes	LC	10.5 dBm	-40 to +185° F (-40 to +85° C)
	SFP	LFP414	Single-mode	1310 nm	40 km	Yes	LC	21 dBm	-40 to +185° F (-40 to +85° C)
100-Mbps Fast Ethernet	SFP	LFP401	Multimode	850 nm	2 km	Yes	LC	7 dBm	-40 to +185° F (-40 to +85° C)
	SFP	LFP402	Multimode	1310 nm	2 km	Yes	LC	12 dBm	-40 to +185° F (-40 to +85° C)
	SFP	LFP403	Single-mode	1310 nm	30 km	Yes	LC	19 dBm	-40 to +185° F (-40 to +85° C)
	SFP	LFP404	Single-mode	1310 nm	60 km	Yes	LC	30 dBm	-40 to +185° F (-40 to +85° C)

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Specifications

NOTE: For SFP specifications, see the chart on the previous page.



Converter Specifications

Approvals	CE
Environmental	Operating temperature: -40 to +176° F (-40 to +80° C); Humidity: 5 to 95%, noncondensing
Connectors	All converters: (1) RJ-45 10-/100-/1000-Mbps Ethernet, (1) USB Micro B; LMC400A, LMC4000A: (1) SFP; LMC401A, LMC403A, LMC4001A, LMC4003A: (1) pair of ST; LMC402A, LMC404A, LMC4002A, LMC4004A: (1) pair of SC
Power	100–120 VAC, 50–60 Hz, 0.02A @ 120 V external power supply or from a PC's USB port, 0.5 A @ 5 VDC
Size	0.84"H x 1.75"W x 2.25"D (2.1 x 4.4 x 5.7 cm)
Weight	Without power adapter: 2.5 oz. (70.8 g); With USB cable: 3.8 oz. (107.7 g); With AC power adapter (U.S.) and USB: 5.5 oz. (155.9 g)