

Pure Networking™ Media Converters

**Rackmount or standalone,
these converters won't
break the bank!**



LHC202A

Features:

- Feature popular media converter interfaces at value prices.
- Layer 1 media conversion is transparent to data and offers plug-and-play installation.
- Use as standalone media converters or in a convenient 14-slot rackmount chassis.
- Choose from 10-/100-Mbps converters or Gigabit converters.
- Diagnostic LEDs for easy troubleshooting.
- SFP model accepts standard SFPs, enabling you to adapt the interface to your requirements.
- Link-fault passthrough alerts you to “silent failures” on the fiber side.
- Fast Ethernet models feature UTP ports that are autonegotiating for speed and duplex.
- Auto MDI/MDI-X on all copper ports.

Extend Your Network Over Fiber



LHC202A

Pure Networking Media Converters may be inexpensive, but they're not cheap—they're built solid with a sturdy metal case.



10-/100-Mbps models have DIP switches to set speed, duplex, and link-fault passthrough.



Diagnostic LEDs on the front panel enable you to troubleshoot at a glance.

Economical.

Black Box® Pure Networking Media Converters enable you to extend your network over fiber at a price that won't eat up your budget. Available in basic 10-/100- or 1000-Mbps models, these affordable converters can cover most of your network's media conversion requirements—there's even a rackmount chassis for enterprise network applications.

The 10/100 models extend your network up to 2 kilometers (1.2 miles) over multimode fiber or up to 20 kilometers (12.4 miles) over single-mode fiber.

Gigabit models extend your network 500 meters (1640 ft.) over multimode fiber or up to 15 kilometers (9.3 miles) over single-mode fiber.

SFP model provides extra versatility.

The SFP Converter (LGC200A) features a Gigabit twisted-pair port plus a standard SFP slot, which enables you to customize the converter with an SFP to get the fiber interface of your choice. Through the use of SFPs, you can extend a network up to 30 kilometers (18.6 miles) over single-mode fiber. This converter accepts any standard 1250-Mbps SFP.

Converter specifications:

Environmental —

- Operating temperature: +32 to +104° F (0 to +40° C);
- Storage temperature: -40 to +158° F (-40 to +70° C);
- Operating humidity: 10 to 90%, noncondensing;
- Storage humidity: 5 to 90%, noncondensing

CE Approval — Yes

Connectors — LHC201A–LHC202A, LGC201A–LGC202A:

- (1) RJ-45, (1) pair of SC;
- LGC200A: (1) RJ-45, (1) SFP slot

Indicators — LHC201A–LHC202A: LEDs: (1) PWR, (1) LFP,

- (1) FX Link/Act, (1) TP SPD, (1) TP FDX/Col, (1) TP Link/Act;

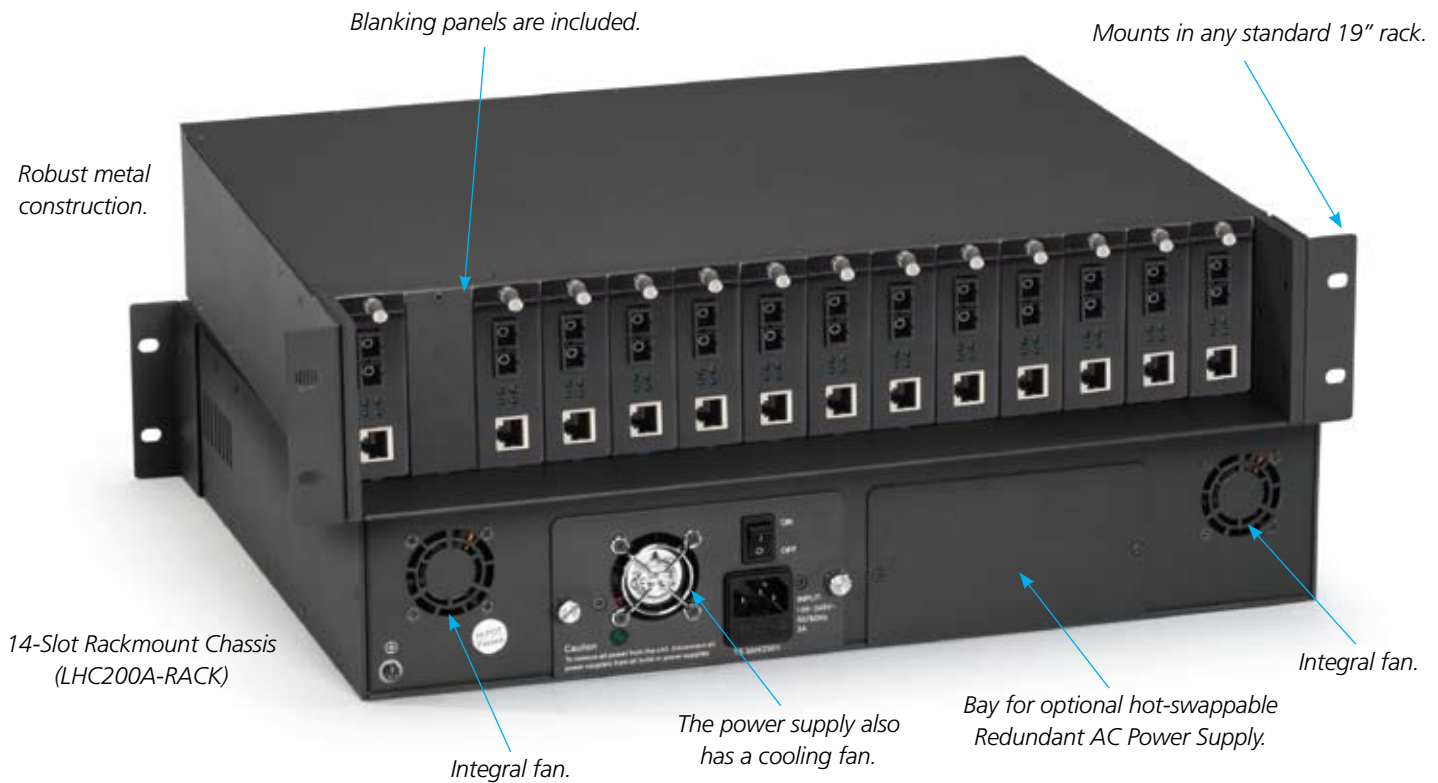
LGC200A–LGC202A: LEDs: (1) PWR, (1) FX Link, (1) TP Link, (1) TP RX

Power — Input: 100–240-VAC, 50–60-Hz external power supply, 0.3A @ 120 V;

- Output: 9 VDC, 0.6 A, 5.4 watts maximum

Size — 3.7"H x 2.9"W x 1.1"D (9.4 x 7.3 x 2.7 cm)

Weight — 0.6 lb. (0.3 kg) without power adapter



Optional 14-Slot Rackmount Chassis.

Pure Networking Media Converters may be used individually, but when installing multiple converters, the 14-Slot Rackmount Chassis is a tidy solution. The chassis mounts on standard 19" rails and holds and powers up to 14 media converters in only 2U of rack space. Two rear fans circulate air and cool the media converters.

Because the Rackmount Chassis powers the media converters, there's no need to supply a power outlet for each converter. The chassis' passive-backplane architecture ensures steady power input for each media converter. Overvoltage and overcurrent protection guard the converters from power surges and spikes. Add the optional Redundant AC Power Supply to the chassis to provide backup power in case the first power supply goes down. Both media converters and power supplies are hot swappable for maximum uptime.

Chassis specifications:

Environmental —

Operating temperature: +32 to +104° F (0 to +40° C);
 Storage temperature: -40 to +158° F (-40 to +70° C);
 Operating humidity: 10 to 90%, noncondensing;
 Storage humidity: 5 to 90%, noncondensing

CE Approval — Yes

Power — Input: 110–240-VAC, 50–60-Hz,
 0.3A @ 120 V;

Output: +9.5VDC, 9.5A

Size — 3.4"H (2U) x 19"W x 14.1"D (8.6 x 48.3 x 35.8 cm)

Weight — 17.6 lb. (8 kg)

Pure Networking Media Converters

Item Description	Code
10-/100-Mbps Copper to 100-Mbps Fast Ethernet Duplex Fiber	
Multimode, 1310-nm, 2 km, SC	LHC201A
Single-Mode, 1310-nm, 20 km, SC	LHC202A
1000-Mbps Copper to 1000-Mbps Gigabit Ethernet Duplex Fiber	
Multimode, 850-nm, 0.5 km, SC	LGC201A
Single-Mode, 1310-nm, 15 km, SC	LGC202A
SFP	LGC200A
Accessories	
14-Slot Rackmount Chassis	LHC200A-RACK
Redundant AC Power Supply for 14-Slot Rackmount Chassis	LHC200A-RACK-PS

SFPs (1.25 Gbps with extended diagnostics)

Category	Type	Code	SM or MM	Wavelength	Distance	DDM Support	Connector Type	Power Budget	Operating Temperature	Application
1250-Mbps Fiber	SFP	LFP411	MM	850 nm	550 m	Yes	LC	7.5 dBm	-40 to +185° F	GbE, 1000BASE-SX
	SFP	LFP412	MM	1310 nm	2 km	Yes	LC	10 dBm	-40 to +185° F	GbE, 1000BASE-SX2
	SFP	LFP413	SM	1310 nm	15 km	Yes	LC	10.5 dBm	-40 to +185° F	GbE, 1000BASE-LX
	SFP	LFP414	SM	1310 nm	40 km	Yes	LC	21 dBm	-40 to +185° F	GbE, 1000BASE-LHX

SFPs (125 Mbps with extended diagnostics)

Category	Type	Code	SM or MM	Wavelength	Distance	DDM Support	Connector Type	Power Budget	Operating Temperature	Application
155-Mbps Fiber	SFP	LFP401	MM	850 nm	2 km	Yes	LC	14 dBm	-40 to +185° F	Fast Ethernet, 100BASE-SX
	SFP	LFP402	MM	1310 nm	2 km	Yes	LC	12 dBm	-40 to +185° F	Fast Ethernet, 100BASE-FX
	SFP	LFP403	SM	1310 nm	30 km	Yes	LC	19 dBm	-40 to +185° F	Fast Ethernet, 100BASE-LX
	SFP	LFP404	SM	1310 nm	60 km	Yes	LC	30 dBm	-40 to +185° F	Fast Ethernet, w100BASE-EX60