

DATA SHEET

LGC5600A, LGC5700A

GIGABIT ETHERNET POE++ MEDIA CONVERTER

24/7 TECHNICAL SUPPORT AT 877.877.2269 OR VISIT BLACKBOX.COM



OVERVIEW

802.3BT 60 W POE++ GB MEDIA CONVERTER (LGC5600A, LGC5700A) DATA SHEET

INTRODUCTION

The LGC5600A and LGC5700A are Gigabit 802.3bt PoE++ media converters that convert 10/100/1000BASE-T RJ-45 to 1000BASE-X or 100BASE-X fiber and support Power-over-Ethernet (60 W PoE++).

Two models are available:

- LGC5600A (INCLUDES AN AC POWER ADAPTER, OPERATES IN A COMMERCIAL TEMPERATURE RANGE, HAS [1] RJ-45 CONNECTOR, AND SUPPORTS [1] FIBER SFP MODULE)
- LGC5700A (INCLUDES A DC POWER ADAPTER, OPERATES IN AN EXTENDED INDUSTRIAL TEMPERATURE RANGE, HAS [1] RJ-45 CONNECTOR, AND SUPPORTS [1] FIBER SFP MODULE)

NOTE: SFPs are ordered separately.

FEATURES

- IEEE 802.3BT COMPLIANT 60 W MEDIA CONVERTERS
- MEDIA CONVERTER AND POE++ POWER SOURCING EQUIPMENT
- CONVERTS 10/100/1000BASE-T COPPER TO 1000BASE-X OR 100BASE-X FIBER
- COMPATIBLE WITH 100BASE-X OR 1000BASE-X SFP TRANSCEIVERS
- HANDLES FRAME SIZES UP TO 10,240 BYTES
- SUPPORTS 60 W PER IEEE 802.3BT ON ONE RJ-45 COPPER PORT
- HAS ONE FIBER SFP SLOT AND ONE RJ-45 PORT
- CONFIGURABLE POE++ POWER RESET
- AVAILABLE IN AC AND DC MODELS
- INTEGRATED WALLMOUNT BRACKETS
- LGC5600A OPERATES AT 32 TO 122° F (0 TO 50° C)
- LGC5700A OPERATES AT -40 TO +167° F (-40 TO +75° C)

COMPATIBLE SFPs

COMPATIBLE FIBER SFPs		
PART NUMBER	DESCRIPTION	DISTANCE
100-MBPS CONNECTIONS		
LFP401	SFP, 155-Mbps, Extreme Temperature, 850 nm Multimode Fiber, 2 km, LC	2 km
LFP402	SFP, 155-Mbps, Extreme Temperature, 1310 nm Multimode Fiber, 2 km, LC	2 km
LFP403	SFP, 155-Mbps, Extreme Temperature, 1310 nm Singlemode Fiber, 30 km, LC	30 km
1000-MBPS CONNECTIONS		
LFP411	SFP, 1.25-Gbps, Extreme Temperature, 850 nm Multimode Fiber, 550 m, LC	550 m
LFP412	SFP, 1.25-Gbps, Extreme Temperature, 1310 nm Multimode Fiber, 2 km, LC	2 km
LFP413	SFP, 1.25-Gbps, Extreme Temperature, 1310 nm Singlemode Fiber, 10 km, LC	10 km
LFP414	SFP, 1.25-Gbps, Extreme Temperature, 1310 nm Singlemode Fiber, 40 km, LC	40 km
LFP420	SFP, 1.25-Gbps, Extreme Temperature, 1550/1310 nm Singlemode Simplex Fiber, 10 km, LC	10 km
LFP421	SFP, 1.25-Gbps, Extreme Temperature, 1310/1550 nm Singlemode Simplex Fiber, 10 km, LC	10 km
LFP441	SFP, 1.25-Gbps, 850nm Multimode Fiber, 550 m, LC	550 m
LFP442	SFP, 1.25-Gbps, 1310nm Singlemode Fiber, 20 km, LC	20 km

NOTES:

1. All Black Box SFPs feature Extended Diagnostics (excluding LFP441 and LFP442).
2. Black Box Media Converters also support generic SFPs.



SPECIFICATIONS

802.3BT 60 W POE++ GB MEDIA CONVERTER (LGC5600A)

FRONT VIEW



LGC5600A

BACK VIEW



LCG5600A

WHAT'S INCLUDED WITH THE LGC5600A

- (1) LGC5600A MEDIA CONVERTER
- (1) 100-240 VAC POWER ADAPTER

NOTE: SFPs are ordered separately. See chart on page 2.

SPECIFICATIONS FOR LGC5600A

STANDARD COMPLIANCES	IEEE 802.3, IEEE 802.3af (15.40 watts max), IEEE 802.3at (30 watts max), IEEE 802.3bt (60 watts max)
POE++ SUPPORTED MODES	IEEE Alternate A (Alt A) and 4-Pair
REGULATORY COMPLIANCES	UL, CE, FCC Class A, RoHS, WEEE, REACH
FRAME SIZE	Up to 10,240 bytes
AC POWER REQUIREMENTS	100 to 240 VAC/50 to 60 Hz 0.62 A at 120 VAC (typical)
DIMENSIONS	1.0" H x 4.5" W x 6.0" D (2.5 x 11.4 x 15.2 cm)
WEIGHT	Module Only: 1.1 lb. (0.5 kg) Module w/Adapter: 2.8 lb. (1.3 kg)
OPERATING TEMPERATURE	Commercial: 32 to 122° F (0 to 50° C) Storage: -40 to +176° F (-40 to +80° C)
HUMIDITY	5 to 95% (non-condensing)
ALTITUDE	-328 to +13,123 ft. (-100 to +4,000 m)
MTBF (HOURS)	Module Only: 474,000 AC Adapter: 100,000

SPECIFICATIONS

802.3BT 60 W POE++ GB MEDIA CONVERTER (LGC5700A)

WHAT'S INCLUDED WITH THE LGC5700A

- (1) LGC5700A MEDIA CONVERTER
- (1) ±44 TO ±57 VDC POWER ADAPTER

NOTE: SFPs are ordered separately. See chart on page 2.

SPECIFICATIONS FOR LGC5700A	
STANDARD COMPLIANCES	IEEE 802.3, IEEE 802.3af (15.40 watts max), IEEE 802.3at (30 watts max), IEEE 802.3bt (60 watts max)
POE++ SUPPORTED MODES	IEEE Alternate A (Alt A) and 4 Pair
REGULATORY COMPLIANCES	UL, CE, FCC Class A, RoHS, WEEE, REACH
FRAME SIZE	Up to 10,240 bytes
AC POWER REQUIREMENTS	±44 to ±57 VDC; 1.16 A at 56 VDC 3-pin terminal (isolated)
DIMENSIONS	1.0" H x 4.5" W x 6.0" D (2.5 x 11.4 x 15.2 cm)
WEIGHT	1.1 lb. (0.5 kg)
OPERATING TEMPERATURE	Industrial: -40 to +167° F (-40 to +75° C) Storage: -40 to +176° F (-40 to +80° C)
HUMIDITY	5 to 95% (non-condensing)
ALTITUDE	-328 to +13,123 ft. (-100 to +4,000 m)
MTBF (HOURS)	474,000



