

Product Data Sheet

Industrial UPoE Media Converter - 10/100/1000Base-T, 1000x, SFP

Overview

The Industrial UPoE Media Converter used with a multimode or single-mode SFP drives a twisted-pair signal over fiber cable up to 50 mi. (80 km).

Features

- The RJ-45 Port complies with IEEE 802.3at PoE+ and supports Cisco UPoE, up to 60 W power delivery.
- Has one 10/100/1000Base-T(X) Gigabit RJ-45 port and one 1000Base-X SFP port.
- The Fiber Port supports either multimode or single-mode fiber
- The twisted-pair port supports full-duplex, auto-MDI/ MDI-X and auto-negotiation.
- Uses jumbo frame 9K bytes.
- Operating temperature ranges from -4 to +158° F (-20 to +70° C).
- Mounts on a DIN rail.



Specifications for Compatible Flber SFPs (fit in the SFP cage on the unit)

Product Code	Product Name	Wavelength (nm)	Distance	TX Power (dBm)	RX Sensitivity (dBm)	Link Budget
LFP411	SFP, 1250-Mbps Fiber with Extended Diagnostics, 850-nm Multimode, LC, 550 m	850 nm	1804 ft. (550 m)	-6.5 dBm	-17 dbm	10.5 dBm
LFP412	SFP, 1250-Mbps Fiber with Extended Diagnostics, 1310-nm Multimode, LC, 2 km	1310 nm	1.2 mi. (2 km)	-5 dBm	-19 dBm	14 dBm
LFP413	SFP, 1250-Mbps Fiber with Extended Diagnostics, 1310-nm Single-Mode, LC, 10 km	1310 nm	6.2 mi. (10 km)	-6.5 dBm	-20 dBm	13.5 dBm
LFP414	SFP, 1250-Mbps Fiber with Extended Diagnostics, 1310-nm Single-Mode, LC, 30 km	1310 nm	18.6 mi. (30 km)	1 dBm	-23dBm	24 dBm
LFP418	SFP - 1250-Mbps Fiber with Extended Diagnostics, 1550-nm Single-Mode, LC, 80 km	1550 nm	49.7 mi. (80 km)	1 dBm	-23 dBm	24 dBm
LFP420	SFP - Simplex, 1250-Mbps Fiber with Extended Diagnostics, 1550-nm TX, 1310-nm RX, Single-Mode, LC, 10 km	1550 nm	6.2 mi. (10 km)	-6 dBm	-20 dBm	14 dBm

NOTE: One SFP is required for operation of the unit.

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Specifications

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Approvals	EMI:
	CE mark, Commercial;
	FCC Part 15 Class A,
	VCCI Class A;
	EMS:
	EN61000-4-2 (ESD);
	EN61000-4-3 (RS); EN61000-4-4 (EFT);
	EN61000-4-4 (E17), EN61000-4-5 (Surge);
	EN61000-4-5 (Starge), EN61000-4-6 (CS);
	EN61000-4-8;
	EN61000-4-11
Connectors	Twisted-pair: (1) 10/100/1000BaseT(X) RJ-45,
	Fiber: (1) 1000Base-X SFP open slot
	NOTE: A compatible fiber SFP module installs in the SFP open slot. See page 1 for details.
Data Transfer Rate	2000 Mbps/full-duplex and 1000 Mbps/half-duplex
Dimensions	5.1"H x 0.94"W x 3.8"D (13 x 2.4 x 9.6 cm)
Housing	IP30
Jumbo Frames	9K bytes
Indicators	(5) LEDs:
	TX port:
	(1) 1000 Mbps green LED,
	(1) Link/Activity green LED,
	(1) PoE ON green LED;
	FX port:
	(1) Link/Activity green LED;
	Per unit:
	(1) Power amber LED
Mounting	Via DIN rail kit installed on unit
Power	Input: 44–57 VDC via (1) 2-pin terminal block or (1) optional 5-mm DC jack; Includes 100–240 VAC, 50/60 Hz input, 56 VDC output, 1.2 A power adapter
Relative Humidity	10 to 90%, noncondensing
Standards	IEEE 802.3ab 10Base-T;
	IEEE 802.3u 100Base-TX;
	IEEE 802.3ab 1000Base-T;
	IEEE 802.3z 1000Base-X;
	IEEE 802.3x Flow Control
Temperature Tolerance	Operating: -4 to +158° F (-20 to +70° C);
	Storage: -40 to +185° F (-40 to +85* C)
Transmission Media	1000BaseTX: CAT5 UTP/STP or above, up to 100 m
	1000BaseX:
	Multimode 50/125-μm or 62.5/125-μm fiber optic cable;
	Single-mode 9/125-μm or 10/125-μm Fiber optic cable
	(1) DIP switch:
User Controls	
User Controls	ON: UPoE enable, LLDP enable:
User Controls	ON: UPoE enable, LLDP enable: OFF: UPoE disable, LLDP disable

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Ordering Information

Item	Code
Industrial UPoE Media Converter - 10/100/1000Base-T, 1000x, SFP	
	LGC5400A
-You will also need to order an SFP module	
SFP, 1250-Mbps Fiber with Extended Diagnostics, 850-nm Multimode, LC, 550 m	LFP411
SFP, 1250-Mbps Fiber with Extended Diagnostics, 1310-nm Multimode, LC, 2 k	LFP412
SFP, 1250-Mbps Fiber with Extended Diagnostics, 1310-nm Single-Mode, LC, 10 km	LFP413
SFP, 1250-Mbps Fiber with Extended Diagnostics, 1310-nm Single-Mode, LC, 30 km	LFP414
SFP - 1250-Mbps Fiber with Extended Diagnostics, 1550-nm Single-Mode, LC, 80 km	LFP418
SFP - Simplex, 1250-Mbps Fiber with Extended Diagnostics, 1550-nm TX, 1310-nm RX, Single-Mode, LC, 10 km	LFP420

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