LCP-GbE Series

1-Port Gigabit Ethernet SFP Fiber Transceivers



- Compliant with IEEE 802.3z
- Full duplex operation
- Supports IEEE 802.3x flow control
- DDM diagnosis function enhances transmission quality
- Duplex LC connector interface
- Hot-Pluggable for maximum flexibility
- TTL signal detection indicator
- Class 1 laser product (Compliant with IEC 60825-1 and IEC 60825-2)
- Metal case for better EMI immunity
- Wide operating temperature

Specifications

TECHNOLOGY

Standard Compliance

- IEEE 802.3z 1000Base-X

INTERFACE

Gigabit Ethernet

- Port number: 1
- Connectors: Duplex LC

Digital Diagnostics Monitoring Function (DDM)

Basic Information

- Ethernet Compliance Code, Vendor Name, Wavelength, Distance

Enhanced Parameters

- Temperature, Supply Voltage, Transmitted Bias Current, Transmitted Power, Received Power

Note1: All Enhanced Parameters listed above include alarm and warning thresholds
Note2: DDM function is fully compatible with Delta DVS series Industrial Ethernet Switches

Fiber Optics

	1000Base-X		
	LCP-1250A4FDR	LCP-1250B4QDR	LCP-1250B4MDR
Cable	50/125μm MultiMode	9/125μm SingleMode	9/125μm SingleMode
Wavelength	850nm	1310nm	1310nm
Max. TX Power	-4dBm	-3dBm	1dBm
Min. TX Power	-9.5dBm	-9.5dBm	-4dBm
RX Sensitivity	-17dBm	-20dBm	-23dBm
Optical Budget	7.5dBm	10.5dBm	19dBm

PHYSICAL

Housing
- Metal case

Dimensions
- 8.5 mm (H) x 13.4 mm (W) x 57 mm (D)

Installation
- Hot-swappable, pluggable

ENVIRONMENTAL LIMITS

Operating Temperature

Standard Models:
- -5℃ to 70℃ (23˚F to 158˚F)

Wide Temp. Models:
- -40℃ to 85℃ (-40˚F to 185˚F)

Storage Temperature
- -40℃ to 85℃ (-40˚F to 185˚F)

Ambient Relative Humidity
- 5% to 95% (non-condensing)

APPROVALS

Safety
- UL 60950-1, EN 60950-1

Laser Eye Safety
- IEC 60825-1, EN 60825

EMI
- FCC 47 CFR Part 15 Subpart B Class B, EN 55022, CISPR 22

ESD
- IEC 61000-4-2, MIL-STD-883E, EIA-JESD22-A115-A

Ordering Information

Product		Interface		
Standard Temperature -5℃ to 70℃	Wide Temperature -40℃ to 85℃	Connectors	Fiber Type	Max. Link Distance
LCP-1250A4FDRJ	LCP-1250A4FDRTJ	Duplex LC	MultiMode	550m
LCP-1250B4QDRJ	LCP-1250B4QDRTJ	Duplex LC	SingleMode	10km
LCP-1250B4MDRJ	LCP-1250B4MDRTJ	Duplex LC	SingleMode	40km

Note: The actual link distance of a particular fiber optic link depends on the optical budget, the number of connectors and splices, and cabling quantity. Please measure and verify the actual link loss values once the link is established to identify any potential performance issues.