

CS-1200

Gigabit Converters

Description:

The CS-1200 series are Gigabit Ethernet - Fiber Converters designed to be media interfaces between 10/100/1000Base-T(X) Ethernet copper pairs cable and 1000Base-SX/LX, fiber optics cable. They feature a RJ-45 connector, and a single or pair of fiber optic connectors. The Gigabit Fiber Converters give you the freedom to extend your 10/100/1000 Mbps cabling distance by allowing connectivity up to 550 meters for multimode optical fiber and 10 up to 120 kilometers using singlemode optical fiber. The CS1200-W31(55) utilizes 1310 nm/1550 nm high performance WDM technology to provide TX and RX over a single fiber cable for distance 10 - 40 km. LED indicators signal the power status of the converter, Ethernet port and FX port activity. With link fault pass through (LFP) in TX/FX converter application, link status on one port is propagated to the other port to notice the remote node. The optical transceiver can provide user to use any application when they want longer distance and change to CWDM in order to save fiber line.



CS-1200-F31-SC-LX-DC

Features:

- Complies with IEEE: 802.3 10Base-T, 802.3u 100Base-TX, 802.3ab 1000Base-T and 802.3z 1000Base-SX/LX
- Fiber connectivity up to 550 m for multimode fiber, 10 – 120 km for singlemode fiber
- Fixed SC transceiver
- LFP – link fault pass through function
- Optional SC, LC or Bi-directional (singlemode only) fiber connectors
- One auto-MDI/MDIX RJ-45 connector interface
- Forced 1000 Mbps and full/half duplex, or auto-negotiation for TP port
- 6 diagnostic LEDs (power, duplex/collision, TP 1000 Mbps, TP 100 Mbps, fiber link, transmitting, receiving, LFP function)

Specifications:

Standards	IEEE 802.3 10Base-T, 802.3u 100Base-TX, 802.3ab 1000Base-T and 802.3z 1000Base-SX/LX
Protocol	CSMA/CD
Interface	RJ-45 connector, using UTP 100 Ohm Cat. 5 or 5E cable SC, LC or Bi-directional SC (SM only)
Wavelength	MM: 850 nm fiber: 62.5/125 μ m or 50/125 μ m SM: 1310 or 1550 nm fiber: 9/125 μ m WDM: TX & RX combined in one fiber Type: W31: 1310 nm; W55: 1550 nm
Maximum Segment Length	UTP cable 100 m MM fiber optic pair: 550 m SM fiber optic pair: 10, 40, 80, 120 km SM single optic fiber: 10 km
Enviromental: Temperature Humidity	0° C to 60 °C Operating 10% to 90% (Non-condensing)
External Power Supply	Input rating: 110 or 230 V AC, 50-60 Hz Output rating: 5 V DC, 600 mA
Dimensions	DC: 115 x 80 x 23 mm (L x W x H)

Ordering Code:

Standard converters:

Ordering Code	Description
CS-1200-V85-SC-SX-DC	MM 1G converter 850 nm VCSEL, SX, distance 550 m
CS-1200-F31-SC-LX-DC	SM 1G converter 1310 nm FP, LX, distance 10 km

CWDM converters using DFB lasers:

CS-1200 - DXX - SC - XX - XX			
		SC	SC transceiver
D31 ¹	1310 nm	LX	10 km
D55	1550 nm	HX	40 km
D31-D61 ²	CWDM wavelengths	ZX	80 km
W31 ³	WDM 1310 TX	UX	120 km
W55 ³	WDM 1550 TX		

DC	External power supply 5 V DC
AC	Internal power supply 100-230 V AC
FTTH	End user site application
C5	Card into CRM-2500 chassis

Note:

- 1) D31: only HX versions available
- 2) CWDM wavelengths 1310 – 1610 nm on request
- 3) WDM type – distance limited LX, HX

Application:

