OGEC-110D

Quick Installation Guide

Media Converter

Edition 1.0, May 2022

Technical Support Contact Information

www.hoatech.com.tw/contact.php

Overview

The OGEC-110D series are 10/100/1000Base-T to 100/1000Base-X non-managed media converters that enables you to extend your network to longer distances. With full gigabit ports and compact design, OGEC-110D series not only increases the speed of your network server, but also make Gigabit to the Din-rail /wall mount a reality. Generally, OGEC-110D series is a high-performance solution for your network.

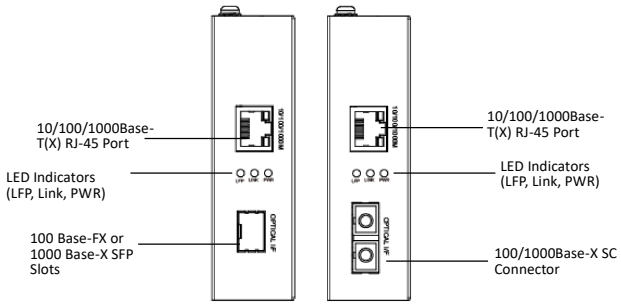
Package Checklist

- OGEC-110D Media Converter
- Removable 5-pin Terminal Block
- Quick Installation Guide (printed)

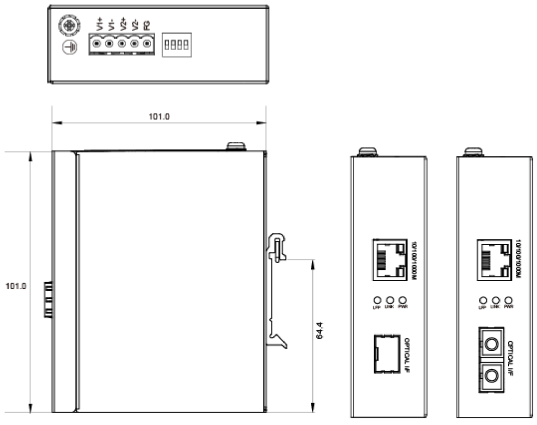
Features

- Low power consumption
- Auto-negotiation supported
- Auto-MDI/MDIX on copper port
- Plug and play
- Hot Swappable
- Layer 2 line switching fabric
- Link fault pass through (LFP)
- -40 °C ~ 75°C operating temperature

Panel Layout of the OGEC-110D



Dimension Diagram (Unit: mm)



Grounding the Media Converter

Grounding and wire routing help limit the effects of noise due to electromagnetic interference (EMI). Run the ground connection from the ground screw to the grounding surface prior to connecting devices.

ATTENTION

This product is intended to be mounted to a well-grounded mounting surface such as a metal panel.

DIP Switch Setting

Pin	Mode	OFF	ON
1	Fiber Speed	1000Base-X	100Base-FX
2	Link Fault Pass Through	Disable	Enable
3	Fiber Auto Negotiation	Enable	Disable
4	Jumbo Frame (10KB)	Disable	Enable

LED Indicators

The front/rear panel of media converter contains several LED indicators. The function of each LED is described in the table below.

LED	Color	State	Description
LFP	Red	ON	The copper port is forced to link down by LFP
		OFF	The copper port is not forced to link down by LFP
LINK	Green	ON	The optical link is transmitting or receiving.
		OFF	The optical link is not transmitting or receiving.
PWR	Green	ON	Power is being supplied to power input.
		OFF	Power is not being supplied to power input.

Specifications

Standard		IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE 802.3z 1000Base-X Gigabit Ethernet IEEE802.3x traffic and back pressure	
LAN		10/100/1000Base-T(X)	
Jumbo Frame Size		10Kbytes	
Transmission Distance	Ethernet	100m	
	Fiber	SFP	Depends on the SFP selection
		Multi-mode	1km *(1x9 Fiber SC Module type)
		Single mode	10km *(1x9 Fiber SC Module type)
Transmission Speed	Ethernet	10/100/1000Mbps	
	Fiber	100/1000Mbps	
Multi-mode *(1x9 SC type)		Wavelength: 1310nm Tx Power: -11~-3 dBm Rx Sensitivity: ≤-22dBm Parameters: 50/125μm, 62.5/125μm	
Single mode *(1x9 SC type)		Wavelength: 1310nm Tx Power: -10~-3dBm	

	Rx Sensitivity: ≤-22dBm Parameters: 9/125μm
Auto MDI/MDIX	Yes (automatic detection of straight or crossover twisted pair cables)
Connectors	1 x RJ-45 socket 1 x SFP slot/SC (single mode)/SC(Multi-mode)
LED Indicators	Power: PWR Fiber: LINK Link Fault Pass Through: LFP Ethernet: RJ-45's indicator
DIP Switch	Fiber Speed 100/1000M Adjustment Jumbo Frame Optical Auto-Negotiation Link Fault Pass Through
Power Input	Unit accepts 9 to 48VDC (External power supply)
Power Consumption	3.5W
Dimensions (W x D x H)	101 x 101 x 32 mm
Weight	370g
Enclosure	Metal shell
Installation	Din-rail / wall-mounted supported
Power Reverse	Support
Overload Current	Support
Operating temperature	-40 °C ~ 75°C
Storage temperature	-40 °C ~ 85°C
Operating humidity	5 ~ 95% (non-condensing)
Storage humidity	0 ~ 95% (non-condensing)
MTBF	>50000 Hours
Safety	EN60950-1, IEC60950-1
Certification Compliance	CE, FCC
EMC	EN61000-4-5
RoHS	Yes