



GE-C110AU:

10/100/1000Base-T to SFP GbE Media Converter With USB Connector

Key Features

- Supports one 10/100/1000Base-T Gigabit Ethernet UTP port and one 1000Base-SX / LX Gigabit Ethernet Fiber port
- Supports 802.3x flow control for full-duplex ports and backpressure for half-duplex ports
- Supports comprehensive types of fiber with different distances and connections, including Bidi/LC and so on
- RoHS Compliance
- DIP Switch to set configurations
- Supports independent LFP function
- Supports jumbo frame (Normal Mode: 2KB, Cut-Through Mode: 9KB)



Overview

GE-C110AU is designed to make conversion between 10/100/1000Base-T and 1000Base-SX/LX (SFP) Fiber Ethernet. The overall network flexibility is enhanced, and the network efficiency is also improved to accommodate and deliver high bandwidth applications. **GE-C110AU** is powered through external power adapter while **GE-C110AU** uses power from USB port on the hosting device such as PC or NB. This unique idea of using USB port power offers great flexibility when deploying this converter. Four LEDs are provided to monitor the operation status of the converter and the DIP Switch on the side panel is used to set the required working configurations to meet various applications.

Technical Specifications

Standards:

- IEEE802.3 10Base-T,
- IEEE802.3u 100base-T,
- IEEE802.3z/ab 1000Base-T,
- IEEE802.3x full-duplex flow control,
- 1000Base-SX/LX
- Cable: UTP: Cat. 5 cable and up to 100m
- Fiber:
 - 1000SX: 50/125, 62.5/125, or 100/140µm multi-mode
 - 1000LX: 8.3/125, 8.7/125, 9/125 or 10/125µm single-mode

Cable Connection Parameter

- TP Cable Limitations: Cat. 5 and up to 100m
- Fiber Cable Limitations:

| | Multi-Mode Fiber 62.5/125µm | | Multi-Mode Fiber 50/125µm | |
|-----------------------------|--|--------------|------------------------------|--------------|
| | Bandwidth MHz-Km | Distance | Bandwidth MHz-Km | Distance |
| 1000SX 850nm | 160 200 | 220m 275m | 400 500 | 500m 550m |
| 1000LX 1310nm/ 1550nm | Single-Mode Fiber 9/125µm Single-Mode transceiver 1310nm: 10/30Km Single-Mode transceiver 1550nm: 50Km | | | |

- **Data Transfer Rate:** 2000Mbps/full-duplex

Network Interface

| | |
|------------|--|
| TP Port | 10/100Base-T Auto-Negotiation Auto-MDIX flow control for Full-Duplex backpressure for Half-Duplex |
| TP Port | 1000Base-T Auto-Negotiation mode Auto-MDIX only for Auto-Negotiation flow control for Full-Duplex only |
| Fiber Port | 1000Base-SX/LX (SFP) with NWay flow control Link partner must be 1000FDX with NWay flow control |

• LED Indicator

| LED | Color | Function |
|-------------------|----------------|---|
| POWER | Green | Lit when +5V power is coming up |
| FX LNK/ACT | Green | Lit when fiber connection is good Blinks when traffic is present |
| TP LNK/ACT | Green | Lit when TP connection is good Blinks when traffic is present |
| TP 10/100/1000 | Green Amber | Green: Lit when 1000Base-T is active Amber: Lit when 100Base-T is active Off: When 10Base-T is active |

• Power

- Requirement: 1A@+5VDC above
- USB Power: 0.5A@+5VDC from USB port
- Consumption: Max. upto 2.0W

• Ambient Temperature: 0 ~ 50°C
• Humidity: 5% ~ 90%
• Dimensions: 26.2(H) x 70.3(W) x 94(D) mm
• Certification: FCC Part 15 Class A, CE Mark
Packing Information

| Carton Dimensions (mm) | pcs/Carton | N.W (KG) | G.W (KG) |
|------------------------|------------|----------|----------|
| 602x447x348 | 40 | 18 | 19 |

Ordering Information

| | |
|-------------------------|---|
| GE-C110AULC | 10/100/1000Base-T to SFP GbE Media Converter with USB Connector, LC Multi-Mode, 850nm |
| GE-C110AULC.S10 | 10/100/1000Base-T to SFP GbE Media Converter with USB Connector, LC Single-Mode 10km 1310nm |
| GE-C110AULC.S30 | 10/100/1000Base-T to SFP GbE Media Converter with USB Connector, LC Single-Mode 30km 1310nm |
| GE-C110AULC.S50 | 10/100/1000Base-T to SFP GbE Media Converter with USB Connector, LC Single-Mode 50km 1310nm |
| GE-C110AUBL5.S10 | 10/100/1000Base-T to SFP GbE Media Converter with USB Connector, Bidi LC Single-Mode 10km, 1550nm |
| GE-C110AUBL3.S10 | 10/100/1000Base-T to SFP GbE Media Converter with USB Connector, Bidi LC Single-Mode 10km, 1310nm |
| GE-C110AUBL5.S20 | 10/100/1000Base-T to SFP GbE Media Converter with USB Connector, Bidi LC Single-Mode 20km, 1550nm |
| GE-C110AUBL3.S20 | 10/100/1000Base-T to SFP GbE Media Converter with USB Connector, Bidi LC Single-Mode 20km, 1310nm |

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