CCD-9100 10G Media Converter
User Manual

1．Overview

The CCD-9100 10G Ethernet Media Converter supports two types of media for network connection, 10GBase-T, and 10GBase-X. It comes with an external AC to DC power adapter. The CCD-9100 Media Converter supports SFP+ modules for various cable types, including 850nm Multi-Mode, 1310nm and 1550nm Single-Mode, as well as Base-T.

2. Checklist

Before installing the Converter, verify that the package contains the following:

1. The Fibre Media converter.
2. AC to DC Power Adapter and Cable.
3. The User Manual.

3. LED Description

There are four LED lights at the front of the Media Converter: TP/LNK (Twisted-Pair Link Light), TX (Data Transmission Light), FX/LNK (SFP+ Module Link Light), PWR (Power Light).

4. Installing the Converter

1. Attach fibre cable from the Converter to the fibre network. The fibre connections must be matched: transmit socket to receive socket.
2. Attach a UTP cable from the TP network device to the RJ45 port on the Converter.

3. Connect the power cord to the Converter and check that the PWR LED light is on. The TP/LNK and FX/LNK LEDs will turn on or blink when all the cable connections are satisfactory. The TX light will blink during data transmission.

5. DIP Switch Settings

No.	Function	Status	Description
1	LFP Function	OFF	Disable
		ON	Enable
2	ALS Function	OFF	Disable
		ON	Enable
3 4	Auto Negotiation	3: ON 4: OFF	TP=10G FX=10G TP=1000M FX=1G TP=10/100M FX=1G (Non-Standard Optical Port Must Be Used in Paired Mode)
		3: OFF 4: ON	TP=10/100/1000M/10G FX=10G

Caution: When LFP and ALS are both enabled, only LFP will work.
Caution: Switch 3 and 4 cannot be on or off at the same time, otherwise the Auto-Negotiation function will not be available.

6. Technical Specifications

The Converter conforms to the following standards:

- **Standards:** - IEEE 802.3an 10GBase-T
  - IEEE 802.3ae 10GBase-X
  - IEEE 802.3ak 10G SMF
  - IEEE 802.3ab 1Gbps
  - IEEE 802.3u   100Mbps
- **UTP Cable:** CAT5/6/6a Ethernet up to 100m.
- **Fibre Cable:**
  Multi-Mode: 50/125, 62.5/125μm.
  Single-Mode: 8.3/125μm, 8.7/125μm, 9/125μm.
- **Data Transfer Rate:**
  20Gbps for full-duplex at 10Gbps speed.
- **LED Indicators:**
  TP/LNK, TX, FX/LNK, PWR.
- **3R Performance** (Regeneration, Reshaping, Retiming).
- **ITU-T WDM Wavelengths.**
- **Jumbo Frames**
- **Hot-Plugging**
- **TP Flow Control:** NWAY auto-negotiation.
- **Compatible with 1RU Rack Chassis** (12 Slots)
- **Power Requirement:** DC 5-12V 1A
- **Ambient Temperature:** 0 ～ 50℃
- **Humidity:** 5% ～ 90%
- **Dimensions**: 20×60×90mm (H×W×D)

This Media Converter meets AS/NZS 62368 and AS/NZS CISPR32 IEC Standards.

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10Gbps Media Converter

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DECLARED