

# 10G SFP+ Copper 30m

10G Eth, SFP+, RJ-45, Copper, 30m, Cat6a/7

## CP-10G-RJ45-CDF02

### OVERVIEW

The CP-10G-RJ45-CDF02 is a copper SFP+ transceiver designed for 10 Gigabit Ethernet over twisted-pair copper cables. It supports data rates of 10.3Gbps and provides 10GBASE-T connectivity over distances up to 30 meters using Cat 6a or Cat 7 cabling.

The module is compliant with the SFP+ MSA and IEEE 802.3az 10GBASE-T standard. It integrates a fully enclosed metallic housing to minimize EMI and uses a compact RJ-45 connector for direct copper interfacing. A 2-wire serial interface provides access to physical-layer status and control functions.

The transceiver operates from a single 3.3V power supply with low power dissipation and is available in Commercial (0°C to +70°C) operating temperature ranges.

### KEY SPECIFICATIONS

- 10G SFP+ copper transceiver with RJ-45 connector
- Supports 10GBASE-T over Cat 6a/7 cables
- Up to 30m transmission distance
- Power consumption less than 1.3W
- Temp operating conditions: C-temp (0°C to +70°C)

**TECHNICAL DATA**

| Parameter             | Value             | Parameter          | Value                     |
|-----------------------|-------------------|--------------------|---------------------------|
| Form Factor           | SFP (Copper)      | Interface Standard | 10GBASE-T<br>IEEE 802.3az |
| Transmission Media    | Electrical (RJ45) | Auto-negotiation   | Towards host              |
| Typical Reach         | 30m               | MAC Interface      | SGMII                     |
| Data Rate Support     | 10.3Gbps          | RxLOS              | YES                       |
| Protocol Support      | 10 GbE            |                    |                           |
| Power Consumption     | <1.3W             |                    |                           |
| Operating Temperature | 0°C to 70°C       |                    |                           |
| Storage Temperature   | -40°C to 85°C     |                    |                           |

**Safety/Regulatory Compliance**

- RoHS Compliance

**ABSOLUTE MAX RATING**

Exceeding these limits can cause permanent damage to the transceiver

| Parameter      | Value          | Parameter         | Value |
|----------------|----------------|-------------------|-------|
| Supply Voltage | 3.13V to 3.47V | Relative Humidity | 85%   |
| Storage Temp   | -40°C to 85°C  |                   |       |

**ORDERING INFORMATION**

| <b>Ordering Code</b> | <b>Tx_DIS</b> | <b>Link Indicator<br/>on Rx_LOS pin</b> | <b>Description</b>                                      |
|----------------------|---------------|-----------------------------------------|---------------------------------------------------------|
| CP-10G-RJ45-CDF02    | Yes           | Yes                                     | 10G Eth, SFP+, RJ-45, Copper, 30m,<br>Cat6a/7, 0 to 70C |

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