10G SFP+ Copper 30m

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

CP-10G-RJ45-xxx2

OVERVIEW

The CP-10G-RJ45-xxx2 is a copper SFP+ transceiver designed to provide high-speed Ethernet connectivity over twisted-pair copper cabling. It supports Ethernet data rates from 100 Mbps to 10 Gbps, including 10GBASE-T, 5GBASE-T, 2.5GBASE-T, 1000BASE-T and 100BASE-TX, with connectivity of up to 100 meters depending on the supported data rate and cable category.

The module is compliant with the SFP+ MSA and applicable IEEE 802.3 Ethernet standards. The transceiver features a compact RJ-45 interface for direct copper connectivity and a metallic enclosure designed to help minimize electromagnetic interference (EMI).

The module operates from a single 3.3 V power supply. A 2-wire serial interface provides access to module identification, monitoring and control functions. The CP-10G-RJ45-xxx2 is available in a Commercial operating temperature range of 0°C to +70°C.

KEY SPECIFICATIONS

- 10G SFP+ copper transceiver with RJ-45 connector
- Compliant with SFP+ MSA and IEEE 802.3 Ethernet 10GBASE-T/ 5GBASE-T/ 2.5GBASE-T/ 1000BASE-T
- Supports data rate from 100Mbps to 10.3Gbps
- Supports 30m to 100m based on the data rate
- Power consumption less than 4W
- Temp operating conditions: C-temp (0°C to +70°C)

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TECHNICAL DATA

Parameter	Value	Parameter	Value
Form Factor	SFP+ (Copper)	Interface Standard	10GBASE-T 5GBASE-T 2.5GBASE-T 1000BASE-T 100BASE-TX
Transmission Media	Electrical (RJ45)		
Typical Reach	30m	Auto-negotiation	Towards line[1)]
Data Rate Support	100 Mbps to 10.3Gbps	RxLOS	YES
Protocol Support	100MbE, 1GbE, 2.5GbE, 5GbE, 10GbE		
Power Consumption	<4W		
Operating Temperature	0°C to 70°C		
Storage Temperature	-40°C to 85°C		

[1)]CP-10G-RJ45-CA02 does not support Auto-Neg

Safety/Regulatory Compliance

- RoHS Compliance

CABLE LENGTHS

Line Port	Data Rate	Cable	Reach
10GBASE-T	10Gbps	CAT6A	30m
5GBASE-T	5Gbps	CAT5E	50m
2.5GBASE-T	2.5Gbps	CAT5E	50m
1000BASE-T	1Gbps	CAT5E	100m
100BASE-TX	100Mbps	CAT5E	100m

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		

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ORDERING INFORMATION

Ordering Code	Tx_DIS	Auto-Neg	Link Indicator on Rx_LOS pin	Description
CP-10G-RJ45-CA02	Yes	No	Yes	10G, SFP+, RJ45, Copper, 30m, Cat6a/7, 0 to 70C
CP-10G-RJ45-CB22	Yes	Yes	Yes	10G, SFP+, RJ45, Copper, 30m, Cat6a/7, 0 to 70C

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CONTACT INFORMATION

Email: sales@cloudphotonix.com
Phone: +91-1203116709, +91-1203116718
CloudPhotonix India Pvt. Ltd.
Block A-51, Sector 67
Noida – 201301, Uttar Pradesh, India

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