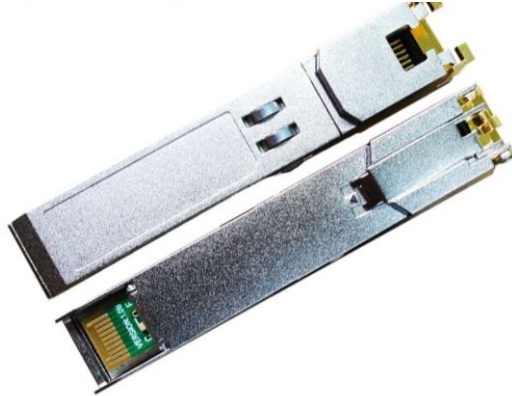# Product Specification

Intelligent Gigabit copper SFP Transceiver

Features

- Support IEEE802.3u,IEEE802.3a,IEEE802.3x,IEEE802.1Q.
- RJ45 port:10/100/1000M rate,full/half duplex mode adaptive, RJ45 rate automatic matching.
- SFP interface: SGMII/1000Base-X/100BASE-FX adaptive.
- The standard I2C interface supports the brand switch to access EEPROM/REGISTER.
- Dial switch: easily configured as 100M port module in one second.

Product Description

The 10/100/1000M intelligent Gigabit port forwarding module can effectively and comprehensively support 10M,100M,1000M fullduplex or half-duplex mode. It is stably applied to super computing centers, big data centers, monitoring computer rooms and other backbone optical fiber switching networks.

Technical Parameter

CY-SFP-RJ45-1G

Application level	Level 2
Backplane total bandwidth type	2Gbps
Overall packet forwarding rate	0.892Mpps
Mac outside	Unrestricted
A buffer zone	732K
Delay time	<3μs
Exchange mode	Store-and-Forward
Data forwarding fault self-healing	10min
Optical module link error monitoring	15s
Transmission Distance	Twisted pair:100M
Transmission mode	10/100/1000M full/half-duplex mode
Pilot lamp	Adaptive no
Number of interfaces	1 SGMII/SERDES/100BASE-FX adaptive SFP interface 110/100/1000M adaptive Ethernet RJ45 interface
Networking Protocol	IEEE 802.3i, IEEE 802.3u, IEEE 802.3z, IEEE 802.3ad, IEEE 802.3at
Levels of protocol	IP30
Sheathing material	Metal
Heat dissipation method	Natural cooling, no fan
Lightning protection grade	Network port level 1 lightning protection (differential mode, common mode surge suppression)
Power Supply	DC3.3V
Power Dissipation	Full load <0.4W
Working temperature	Temperature: -30℃~+75℃; humidity: 5~95%

MTBF	(no frost) 100,000 hours
Size	SFP-STICK standard
Net Weight	0.05kg
Installation	SFP modules are plug and play