10Gigabit SFP+ Optical Module

Plug-in Mounting

Industrial Single/Multi-Mode Single/Double-Fiber 10Gigabit SFP+ Optical Module

- Transmission speed 10Gb/s

- Support LC optical fiber connector and hot-plug

- Support Digital Diagnosis Monitoring (DDM) function, conform to SFF-8472 standard, which can monitor parameters such as module voltage, temperature, bias current and optical power

- Work voltage 3.3V

- Support -40~85℃ wide operating temperature range
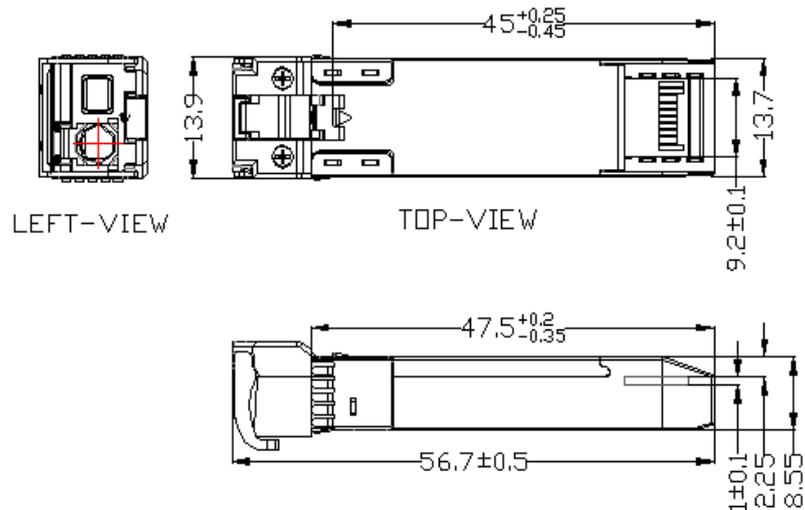
CE RoHS Industrial Grade +85℃ / -40℃

Introduction

This series of products is industrial 10Gigabit SFP+ optical module, which implements photoelectric conversion in optical network and is used with 10Gigabit SFP+ slot of Ethernet communication device. Optical module supports DDM (digital diagnosis and monitoring) function, and can monitor module voltage, temperature, bias current or optical power and other parameters in network management devices with DDM function for network diagnosis. This series of products can be selected according to different optical fiber types, transmission distances and transmission wavelengths, and can support hot plug and meet the needs of different application sites.
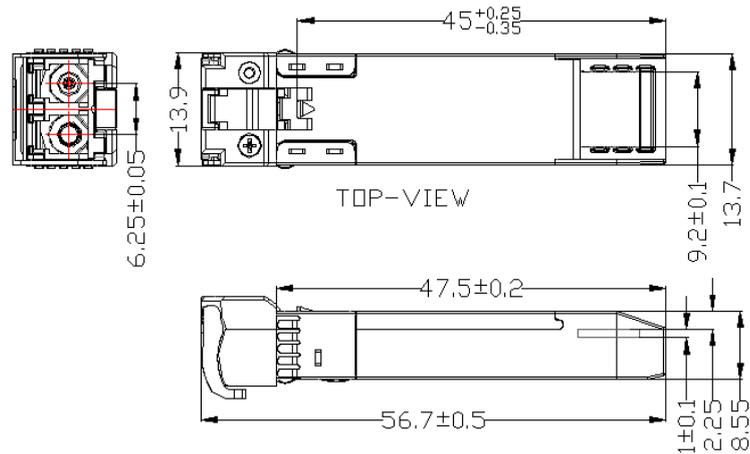
Dimension

Unit: mm

- Single-mode single-fiber

LEFT-VIEW   TOP-VIEW

- Single/multi-mode double-fiber

TOP-VIEW

Note:

- This is the dimension of the shell, excluding the handle and skirt parts.

- The unmarked dimension tolerance is ±0.2mm.

Specification

Interface	Interface type: LC Transmission speed: 10Gb/s Transmission distance: multi-mode double-fiber 1310nm, 2 km; Single-mode double-fiber 1310nm, 10km; Single-mode single-fiber 1270T/1330Rnm, 1330T/1270Rnm, 10km Support DDM (Digital Diagnosis Monitoring) function
Working Environment	Operating temperature: -40~85℃ Storage temperature: -40~85℃ Relative humidity: 5%～95% (no condensation)
Physical Characteristic	Shell: metal shell Installation: plug-in mounting
Authentication	CE, FDA, C-TICK, RoHS
Warranty	1 year

Ordering Information

Available Models	Optical Fiber Type	Transmission Speed	Interface Type	Core Wavelength (nm)	Transmission Distance (km)	Work Temperature (℃)	DDM	Transmission Optical Power (dBm)	Max Receiving Sensitivity (dBm)
SW2045DI-142	MM	10G	LC	1310	2	-40~85	√	-8.2~-0.5	-12
SW3045DI-342	SM	10G	LC	1310	10	-40~85	√	-8.2~-0.5	-14.4
SW7045DI-342	SS	10G	LC	1270T/1330R	10	-40~85	√	-6~1	-12.4
SW8045DI-342	SS	10G	LC	1330T/1270R	10	-40~85	√	-6~1	-12.4

Note:

- Type of optical fiber: MM is multi-mode double-fiber, SM is single-mode double-fiber and SS is single-mode single -fiber.

- Generally, optical modules should be used in pairs, and the type, speed, wavelength and distance of optical fibers should match. The transmission and receiving wavelengths of single-mode single-fiber are different, for example, 1270T/1330R and 1330T/1270R need to be used in pairs.

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