

## 10G SFP Transceiver 80km LC

The SFP optical module is a small hot-swap module in the SFP package with a maximum rate of 10.3G and an interface of LC. SFP optical modules are mainly composed of lasers. SFP classification can be divided into rate classification, wavelength classification, and pattern classification.

A 10G optical module is an optical module that can transmit 10G of information per second.

Place of Origin: Shenzhen, China

Brand Name: OPTICO

Model Number: OP-SFP-10G-CWDM-80KM

Product name:10G CWDM SFP+ Module 80km 1260-1610nm

Max Cable Distance: 80km

Data rate: 10G

Wavelength: 1260-1610nm

Compatible: Cisco , Huawei , Juniper , Alcatel

Chipset: Avago MAXIM Sumitomo

Warranty: 3 years

Optical Connector: LC

Supply Ability: 20000 pcs/month

OPTICO SFP+ CWDM transceiver is expected to send and receive optical data via single-mode fiber, with a connection length of 80 km.

The receiver part consists of a PIN photodiode integrated with TIA. All modules meet Class I laser safety requirements. The digital diagnostic function is available through the 2-wire serial interface specified in SFF-8472. This interface allows real-time access to device operating parameters such as transceiver temperature, laser wavelength, transmitted optical power, received optical power, and transceiver power supply voltage.

### Parameters:

Transmitter						
Parameter	Symbol	Min.	Typ	Max.	Unit	Note
Operating Wavelength			xx		nm	4
Ave.output power(Enabled)	Po	0		5	dBm	1
Extinction Ratio	ER	4.5			dB	1
RMS spectral with	$\Delta\lambda$			1	nm	
Rise/Fall time(20%~80%)	Tr/Tf			50	ps	2
Optical modulation amplitude	OMA	-6.2			dBm	
Dispersion penalty				1	dB	
Output Optical Eye	Compliant with IEEE 0802.3ae					

Receiver						
Parameter	Symbol	Min.	Typ	Max.	Unit	Note
Operating Wavelength		1260		1610	nm	
Sensitivity	Psen			-24	dBm	3
Min.overload	Pimax	-7			dBm	
LOS Assert	Pa	-32			dBm	
LOS De-assert	Pd			-25	dBm	
LOS Hysteresis	Pd-Pa	0.5		4	dB	

### Feature:

Compliant with SFF-8431,SFF-8432 and IEEE802.3ae

Cooled EML transmitter and PIN receiver

Wavelength selectable to ITU-T standards covering CWDM grid wavelengths Digital Diagnostic Monitor Interface

Hot pluggable

link length up to 80km

10GBASE-ER, and 2G/4G/ 8G/10G Fiber Channel applications

Low power consumption

Operating case temperature: 0 to 70 °C

CWDM Networks

### Applications:

10GBASE-LR at 10.3125Gbps

Other optical links

10G Ethernet

### 10G SFP Precautions For Use:

- 1,Pay attention to whether the wavelengths and transmission distances of the optical modules used by the switches at both ends are the same, and the problems of single-fiber dual-fiber and single-mode multimode. If the two ends are not equal, the corresponding converter should be used;
- 2,When using the optical module, try to avoid static electricity and bumps. If bumps occur, it is not recommended to continue using the optical module;
- 3,Note that the front and back of the optical module are inserted, and the pull ring and label should face upward;
- 4,When inserting the optical module into the switch, push it as hard as possible to the bottom, there will generally be a slight sense of vibration. After insertion, you can gently pull out the optical module to check whether it is installed in place;
- 5,When disassembling the optical module, first pull the bracelet to a position 90° from the optical port, and then pull out the optical module;

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**Certificate**  
**Of Quality Management System**

Certificate No. 157100221910M

This is to certify that the Quality Management system of  
**OPTICO COMMUNICATION CO., LIMITED**  
 United social credit code 914403003193084542

Registered address: No. 6/F, Jing 1 Foreign Industrial Park, Jiangmen, Jiangmen, Guangdong  
 (Jiangmen Branch) (Jiangmen Foreign Industrial Park)      (Jiangmen Branch) (Jiangmen Foreign Industrial Park)  
 Business address: No. 6/F, Jing 1 Foreign Industrial Park, Jiangmen, Guangdong  
 (Jiangmen Branch) (Jiangmen Foreign Industrial Park)      (Jiangmen Branch) (Jiangmen Foreign Industrial Park)

This has been attested to conform to the following Quality Management System Standard

**GB/T19001-2016/ISO 9001:2015**

Certified Scope:

R&D, production and sales of optical fiber cables and optical communication equipment, optical fiber cables, optical PLC splitters, wave division multiplexers, fiber optic cables, fiber optic network equipment.




Date of issue: Sep 03/2015  
 Valid period: Sep 04/2016  
 Issued by:

  
 Mr. Wang  
 President of CQMA

  
 Mr. Zhang  
 General Manager of Optico Communication Co., Ltd.




This certificate is valid for 10 years from the issue date and the certificate holder can apply for renewal  
 when the certificate is suspended or withdrawn by the certification body  
 The certificate is not valid if the certificate holder fails to maintain the quality management system  
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<b>Shenzhen QCT Testing Laboratory Co., Ltd.</b>	
<b>Attestation of Conformity</b>	
<b>RoHS</b>	
Certificate number (QCT/01) (must be)	Report number (QCT/01) (must be)
The test(s) described hereafter are carried out and verified on the basis of samples and/or results provided by the client. The information is to be considered for information only.	
<b>2014/05/01 Restriction of Hazardous Substances</b>	
The test results are according to the international or national standards:	TESTED CONFORMITY OR AGAINST, UNTESTED
Applicant:	SHENZHEN QCT TESTING LABORATORY CO., LIMITED, SHENZHEN
Addressee:	SHENZHEN QCT TESTING LABORATORY CO., LIMITED, SHENZHEN, P.R. CHINA, 518000, CHINA, TEL: 0755-26666666, FAX: 0755-26666666, E-MAIL: QCT@QCT-TESTING.COM
Manufacturer:	SHENZHEN QCT TESTING LABORATORY CO., LIMITED, SHENZHEN
Addressee:	SHENZHEN QCT TESTING LABORATORY CO., LIMITED, SHENZHEN, P.R. CHINA, 518000, CHINA, TEL: 0755-26666666, FAX: 0755-26666666, E-MAIL: QCT@QCT-TESTING.COM
Product:	Fiber Optic Patch Cord
Trade Mark:	Not test
The results in this report are applicable only to the devices tested and are not representative of the entire production. The information is to be considered for information only.	
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Liang Wang	
When testing is finished, the test report, test results, and test samples shall be returned to the client.	Date of testing: 2014.05.01
Tel: 0755-26666666	Fax: 0755-26666666
	

**Shenzhen Optico Communication Co.,Ltd**







Keywords: 10G SFP, SFP Transceiver 80km, optical fiber device;