

SFP (Small Form-factor Pluggable) module

Small Form-factor Pluggable (SFP) modules are compact optical transceivers used in optical communications which provide the same functionality as a regular GBIC, but in a much smaller and denser physical size. SFP modules are used in variety of Raisecom equipments for their extremely small size and flexibly hot-swappable characteristic, enabling a fast and convenient installation of Raisecom products. Highlighted for the confirmation to standardized physical and electrical characteristics, the deployment of SFP modules makes carriers'

inventory investment much smaller for there is no vendor limitation.

Raisecom provides various types of SFP modules for different applications, including CWDM wavelength specific SFP which can directly connect with CWDM transmission system and normally used SFP which can work with other vendors' equipments. All Raisecom SFP modules comply with Multi-Source Agreement (MSA), enabling the compatibility with other vendors' equipments.



SFP (Small Form-factor Pluggable) module

Parameters

* 155M SFP modules

Part Number	Wavelength (nm)	RX sensitivity (dBm)	Tx Power (dBm)	Typical distance (km)
USFP-03/M	1310	<-29	-15- -8	2
USFP-03/S1	1310	<-34	-15- -8	15
USFP-03/S2	1310	<-34	-5- 0	40
USFP-03/S3	1550	<-34	-5- 0	80

*1.25G SFP modules

Part Number	Wavelength (nm)	RX sensitivity (dBm)	Tx Power (dBm)	Typical distance (km)
USFP-GB/M	850	<-15	-10- -3	0.55
USFP-GB/S1	1310	<-20	-10- -3	15
USFP-GBS2	1550	<-20	-3- 2	40
USFP-GB/S3	1550	<-30	-3- 2	80

*2.5G SFP modules

Part Number	Wavelength (nm)	RX sensitivity (dBm)	Tx Power (dBm)	Typical distance (km)
USFP-48/S1	1310	<-18	-5- -0	15
USFP-48/S2	1550	<-18	-2- 3	40
USFP-48/S3	1550	<-28	-2- 3	80

CWDM wavelength specific SFP modules

*155M CWDM wavelength specific SFP modules

Part Number	Wavelength (nm)	RX sensitivity (dBm)	Tx Power (dBm)	Typical distance (km)
CSFP-03/S	1471+n*20 (n=0,1...7)	<-34	-5-0	40
CSFP-03/L	1471+n*20 (n=0,1...7)	<-34	-5-0	80

*1.25G CWDM wavelength specific SFP modules

Part Number	Wavelength (nm)	RX sensitivity (dBm)	Tx Power (dBm)	Typical distance (km)
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Specifications

Power supply	3.3V
Working ambience	Temp: 0~70 centigrade RH: 20~90% non-condensing
Storage ambience	Temp: -25~85 centigrade RH: 20~90% non-condensing

CSFP-GB/S	1471+n*20 (n=0,1...7)	<-20	0-5	40
CSFP-GB/L	1471+n*20 (n=0,1...7)	<-30	0-5	80
*2.5G CWDM wavelength specific SFP modules				
Part Number	Wavelength (nm)	RX sensitivity (dBm)	Tx Power (dBm)	Typical distance (km)
CSFP-48/S	1471+n*20 (n=0,1...7)	<-18	0-5	40
CSFP-48/L	1471+n*20 (n=0,1...7)	<-28	0-5	80

Ordering Information

1 CWDM wavelength specific SFP module	
Part number	Description
CSFP-S1/L1/W	S1=03, GB, 48 (155M, 1.25GB, 2.5G) L1=S, L (S indicates 40km and L indicates 80km) W indicates CWDM specific wavelength, including 1471nm, 1491nm, 1511nm, 1531nm, 1551nm, 1571nm, 1591nm and 1611nm.
CSFP-03/S	Rate: 155M, transmission distance: 40km, CWDM SFP optical module
CSFP-03/L	Rate: 155M, transmission distance: 80km, CWDM SFP optical module
CSFP-GB/S	Rate: 1.25G, transmission distance: 40km, CWDM SFP optical module
CSFP-GB/L	Rate: 1.25G, transmission distance: 80km, CWDM SFP optical module
CSFP-48/S	Rate: 2.5G, transmission distance: 40km, CWDM SFP optical module
CSFP-48/L	Rate: 2.5G, transmission distance: 80km, CWDM SFP optical module
2 User SFP module	
Part number	Description
USFP-S2/L2	S2=03, GB, 48 (155M, 1.25G, 2.5G) L2=M, S1, S2, S3, indicates the transmission distance of user site
USFP-03/M	155M, transmission distance 2km, multi mode SFP module for user site
USFP-03/S1	155M, transmission distance 15km, single mode SFP module for user site
USFP-03/S2	155M, transmission distance 40km, single mode SFP module for user site
USFP-03/S3	155M, transmission distance 80km, single mode SFP module for user site
USFP-GB/M	1.25G, transmission distance 0.55km, multi mode SFP module for user site
USFP-GB/S1	1.25G, transmission distance 15km, single mode SFP module for user site
USFP-GB/S2	1.25G, transmission distance 40km, single mode SFP module for user site
USFP-GB/S3	1.25G, transmission distance 80km, single mode SFP module for user site
USFP-48/S1	2.5G, transmission distance 15km, single mode SFP module for user site
USFP-48/S2	2.5G, transmission distance 40km, single mode SFP module for user site
USFP-48/S3	2.5G, transmission distance 80km, single mode SFP module for user site