

SFP+-RJ45

Модуль SFP+, 10GBase-T, RJ45



Особенности:

- Support 10GBASE-T Operation in Host Systems
- Support RX_LOS as Link indication function
- Hot-Pluggable SFP Footprint
- Compact RJ-45 Connector Assembly
- Compliant with SFP MSA

Области применения:

- 10G BASE-T IEEE 802.3an
- 1000BASE-T IEEE 802.3ab
- 100BASE-TX IEEE 802.3u
- 5G MGBASE-T
- 2.5G MGBASE-T

Part No.	Data Rate	Media type	Distance	Connector	Temperature
SFP+-RJ45	10G	CAT6A/C AT7	30m	RJ45	0°C~70°C

Absolute Maximum Ratings*

Parameter	Symbol	Min	Typ	Max	Units
Maximum Supply Voltage	V _{cc}	-0.5		4.0	V
Storage Temperature	T _s	-40		85	°C

*Exceeding any one of these values may destroy the device permanently.

Normal operating condition

Parameter	Symbol	Min	Typ	Max	Units
Operating Case Temperature	T _c	SFP+-RJ45		0	70 °C
Supply Voltage	V _{cc}	3.14	3.3	3.46	V

Electrical Characteristics

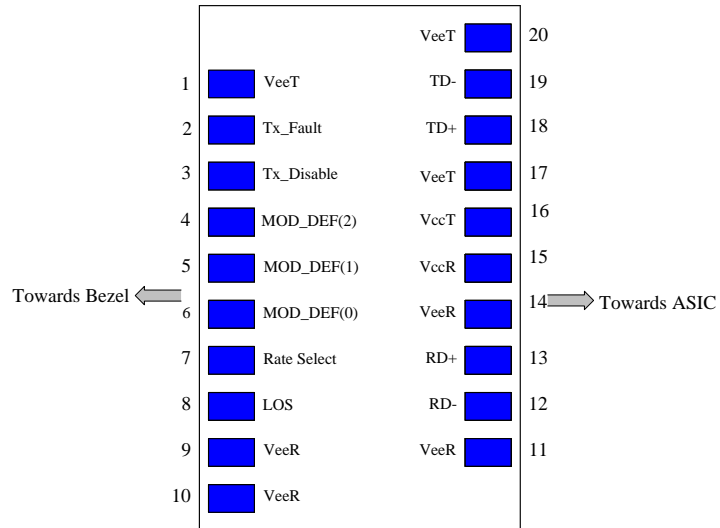
Parameter	Symbol	Min	Typ	Max	Units	Notes/Conditions
+3.3 Volt Electrical Power Interface						
Supply Current	I _{cc}			800	mA	
Input Voltage	V _{cc}	3.13	3.3	3.47	V	

SFP+-RJ45

Low-Speed Signals, Electronic Characteristics						
SFP Output LOW	V_{OL}	0		0.5	V	4.7k to 10k pull-up to host_Vcc, measured at host side of connector
SFP Output HIGH	V_{OH}	host_Vcc – 0.5		host_Vcc + 0.3	V	4.7k to 10k pull-up to host_Vcc, measured at host side of connector
SFP Input LOW	V_{IL}	0		0.8	V	4.7k to 10k pull-up to Vcc, measured at SFP side of connector
SFP Input HIGH	V_{IH}	2		Vcc + 0.3	V	4.7k to 10k pull-up to Vcc, measured at SFP side of connector
High-Speed Electrical Interface, Transmission Line-SFP						
Tx Output impedance	$Z_{out,TX}$		100		Ohm	Differential, for all frequencies between 1MHz and 125MHz
Rx Input Impedance	$Z_{in,RX}$		100		Ohm	Differential, for all frequencies between 1MHz and 125MHz
High-Speed Electrical Interface, Host-SFP						
Single ended data input swing	V_{in}	250		1200	mV	Single ended
Single ended data output swing	V_{out}	350		800	mV	Single ended
Rise/Fall Time	T_r, T_f		20		psec	20%-80%
Tx Input Impedance	Z_{in}		50		Ohm	Single ended
Rx Output Impedance	Z_{out}		50		Ohm	Single ended

SFP+-RJ45

Pin Descriptions



Serial Communication Protocol

Copper SFP support the 2-wire serial communication protocol outlined in the SFP MSA, These SFP use a 128 byte EEPROM with an address of A0H. Accessing Serial ID Memory uses the 2 wire address 1010000X (A0H)

SFP+-RJ45

Mechanical Specifications

