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/CAT7	30m	RJ45	0℃~70℃

Absolute Maximum Ratings*

Parameter	Symbol	Min	Typ	Max	Units
Maximum Supply Voltage	Vcc	-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

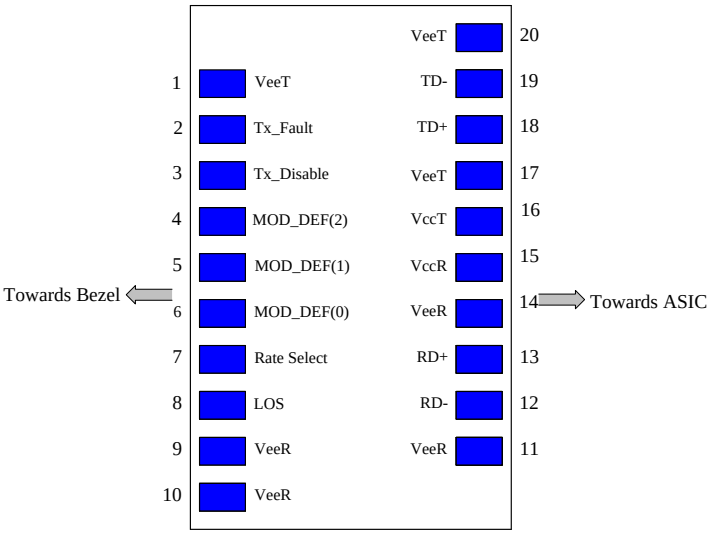
Parameter	Symbol		Min	Typ	Max	Units
Operating Case Temperature	Tc	SFP+-RJ45	0		70	°C
Supply Voltage	Vcc		3.14	3.3	3.46	V

Electrical Characteristics

Parameter	Symbol	Min	Typ	Max	Units	Notes/Conditions
+3.3 Volt Electrical Power Interface						
Supply Current	Icc			800	mA	
Input Voltage	Vcc	3.13	3.3	3.47	V	
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	VIL	0		0.8	V	4.7k to 10k pull-up to Vcc, measured at SFP side of connector
SFP Input HIGH	VIH	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	Zout,TX		100		Ohm	Differential, for all frequencies between 1MHz and 125MHz
Rx Input Impedance	Zin,RX		100		Ohm	Differential, for all frequencies between 1MHz and 125MHz
High-Speed Electrical Interface, Host-SFP						
Single ended data input swing	Vin	250		1200	mV	Single ended
Single ended data output swing	Vout	350		800	mV	Single ended
Rise/Fall Time	Tr,Tf		20		psec	20%-80%
Tx Input Impedance	Zin		50		Ohm	Single ended
Rx Output Impedance	Zout		50		Ohm	Single ended

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)

Mechanical Specifications