

Описание

SFP модули - сменные, компактные трансиверы, устанавливаемые в различное телекоммуникационное оборудование. SFT-C11 является 10/100/1000BASE-T Copper SFP модулем, разработанным в соответствии с соглашением MSA (SFP Multi Source Agreement). Он соответствует стандартам Gigabit Ethernet (IEEE STD 802.3) и поддерживает все приложения Ethernet 10/100/1000BASE-T. Модуль выполнен в металлическом корпусе, имеет стандартный 20-контактный SFP разъем и допускает горячую замену.



Характеристики

- Small Form Factor Pluggable MSA Compliant
- Support 10/100/1000BASE-T Operation
- Compliant with IEEE 802.3 Ethernet
- For 100m Reach over Cat 5 UTP Cable
- Hot-Pluggable SFP Footprint
- EEPROM with serial ID functionality
- Fully metallic enclosure for low EMI
- Low power dissipation (1.05 W typical)
- Compact RJ-45 connector assembly
- Access to physical layer IC via 2-wire serial bus
- Single + 3.3 V power Supply
- Temperature: 0 to 70°C or -40 to +85°C (Industrial)
- RoHS Compliant

Приложения

- Gigabit Ethernet
- Соединение коммутаторов
- Подключение маршрутизаторов

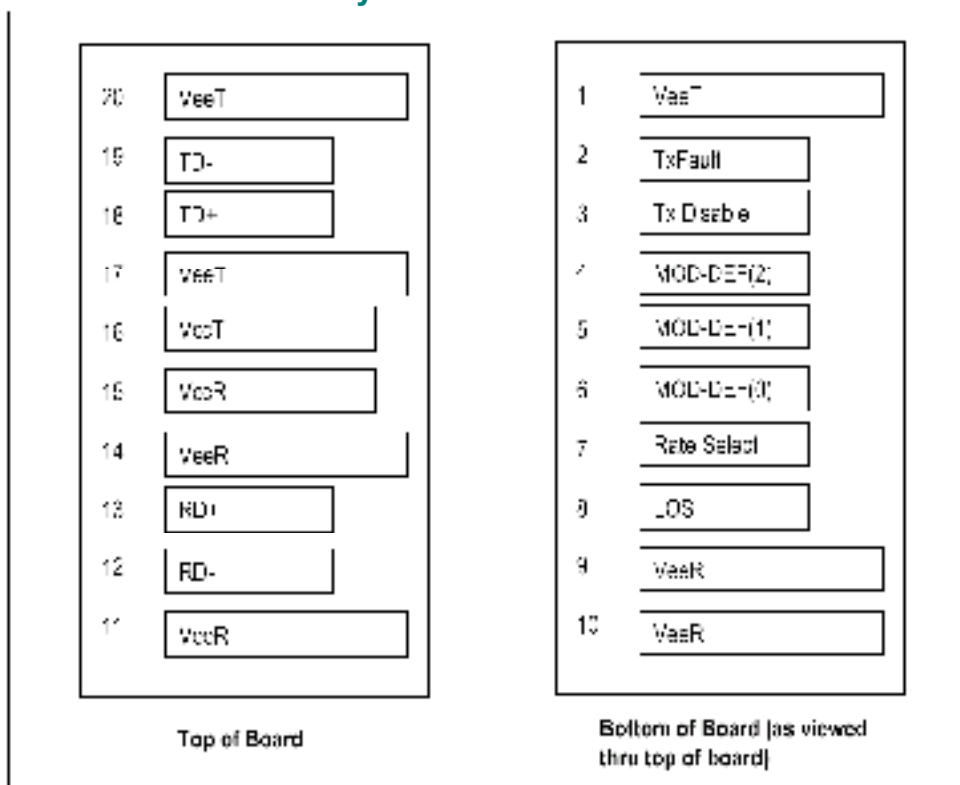
General Specifications

Parameter	Symbol	Min	Typ	Max	Unit
Power Supply Voltage	V _{CC}	3.15	3.3	3.45	V
Power Supply Current	I _{CC}	-	300	350	mA
Operating Temperature (Standard)	T _{OP}	0	-	+70	°C
Operating Temperature (Industrial)	T _{OPI}	-40	-	+85	°C
Surge Current	I _{surge}	-	-	30	mA
Data rate		10		1000	Mbps
Distance	L	-	100	-	m

Order Information

Models	P/No.	Data Rate	Distance	Link Type	Connector	Temp (°C)
SFT-C11	NT1112-X1	10/100/1000M	100m	Cat5	RJ-45	0 to 70
SFT-C11-I	NT1112-X1-I	10/100/1000M	100m	Cat5	RJ-45	-40 to 85

SFP Transceiver Electrical Pad Layout



Pinout Table

Pin	Symbol	Name/Description	Ref.
1	V _{EE} T	Transmitter Ground	
2	TX _{FAULT}	Transmitter Fault.	Not used
3	TX _{DIS}	Transmitter Disable	1
4	MOD_DEF (2)	Module Definition 2. Data line for Serial ID.	2
5	MOD_DEF (1)	Module Definition 1. Clock line for Serial ID.	2
6	MOD_DEF (0)	Module Definition 0. Grounded within the module.	2
7	Rate Select	No connection required	
8	LOS	Loss of Signal indication	Not used
9	V _{EE} R	Receiver Ground	
10	V _{EE} R	Receiver Ground	
11	V _{EE} R	Receiver Ground	
12	RD-	Receiver Inverted DATA out	
13	RD+	Receiver Non-inverted DATA out	
14	V _{EE} R	Receiver Ground	
15	V _{CC} R	Receiver Power Supply	
16	V _{CC} T	Transmitter Power Supply	
17	V _{EE} T	Transmitter Ground	
18	TD+	Transmitter Non-Inverted DATA in	
19	TD-	Transmitter Inverted DATA in	
20	V _{EE} T	Transmitter Ground	

Notes:

- PHY disabled on T_{DIS} > 2.0V or open, enabled on T_{DIS} < 0.8V, used to reset the module.
- Should be pulled up with 4.7k – 10k ohms on host board to a voltage between 2.0V and 3.6V.