

**Product Features**

**1.25G1550nm 200KM**

- 1000BASE-ZX Ethernet 40dB SFP
- 200 km ZX SFP for SMF @ 1.25Gbps
- 1550nm DFB+APD Laser 200 km SFP
- 0°C - 70°C Temperature - Extended/Industrial Available
- Duplex LC connector
- 2-Wire Interface Digital Diagnostic Monitoring (SFF-8724)
- arionet 1 year standard warranty
- SFP MSA / IEEE Std 802.3
- Use with Finisar, Avago, JDSU & networks not requiring OEM

**Applications**

- Gigabit Ethernet
- 1.06 Gb/s Fibre Channel

**General**

Duplex 1000BASE-ZX Ethernet SFP transceiver designed for long distance optical communications up to 200 km with signaling rates up to 1.25Gbps. arionet 1Gb Standard optical transceivers are compatible with many brands such as Finisar, Avago, JDSU and network environments that do not require any special compatibility. For networks that require special OEM compatibility, such as CISCO, BROCADE, JUNIPER, ALCATEL, HP, NORTEL, EMC, QLOGIC and other OEMs, consider arionet Platinum OEM Series transceiver. All arionet long-reach SFP s are ROHS compliant, allow for real-time diagnostic monitoring as per SFF-8472 and designed to meet Multi-Source Agreement (MSA) standards for Duplex transceivers with LC interface.

**Optical Budget Calculation for 200 km SFP Optical Transceiver**

SFP-11D-K200T55	Distance: 200 km				Fiber: 1550nm SMF	
	Tx Min dBm	Tx Max dBm	Rx Min dBm	Rx Max dBm	Link Attenuation dB	Power Budget dB
<b>Product Specifications</b>	3	7	-37	-10		
<b>Optical Calculation Results</b>			-32	-29	37	40

## SFP 200 km transceiver | 1G ZX Ethernet

## General Specifications

Parameter	Unit	Min.	Typ.	Max
<b>Absolute Maximum Ratings</b>				
Maximum Supply Voltage	V	-0.5		3.6
Storage Temperature	°C	-40		+85
Case Operating Temperature	°C	0		+70
<b>Recommended Operating Condition</b>				
Supply Voltage	V	3.15	3.3	3.45
Supply Current	mA			300
Data Rate	Gbps		1.063	1.25

## Electrical Characteristics

Parameter	Unit	Min.	Typ.	Max
<b>Transmitter</b>				
Differential Input Voltage Swing	mVpp	500		2400
Input Differential Impedance	ohm	85	100	115
Transmit Disable Voltage - High	V	2		Vcc
Transmit Disable Voltage - Low	V	0		0.8
Transmit Fault Voltage - High	V	2		Vcc+0.3
Transmit Fault Voltage - Low	V	0		0.5

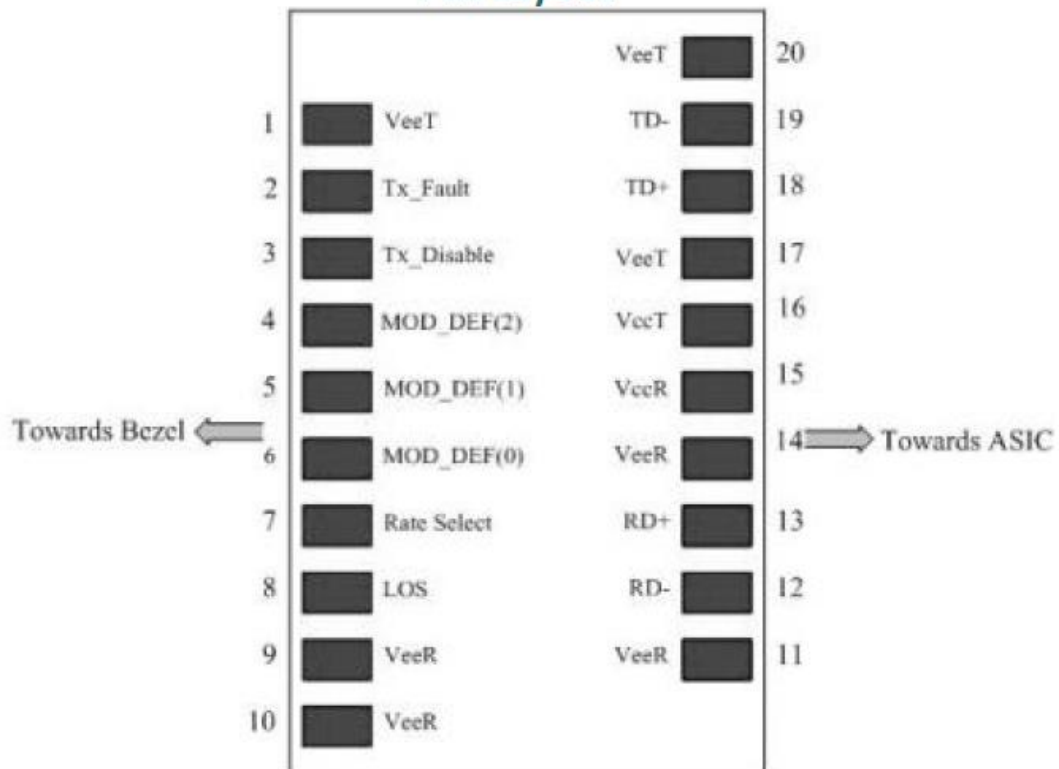
<b>Receiver</b>				
Differential Output Voltage Swing	mVpp	370		2000
Differential Output Impedance	ohms	85	100	115
LOS Output Voltage - High	V	2		Vcc+0.3
LOS Output Voltage - Low	V	0		0.8

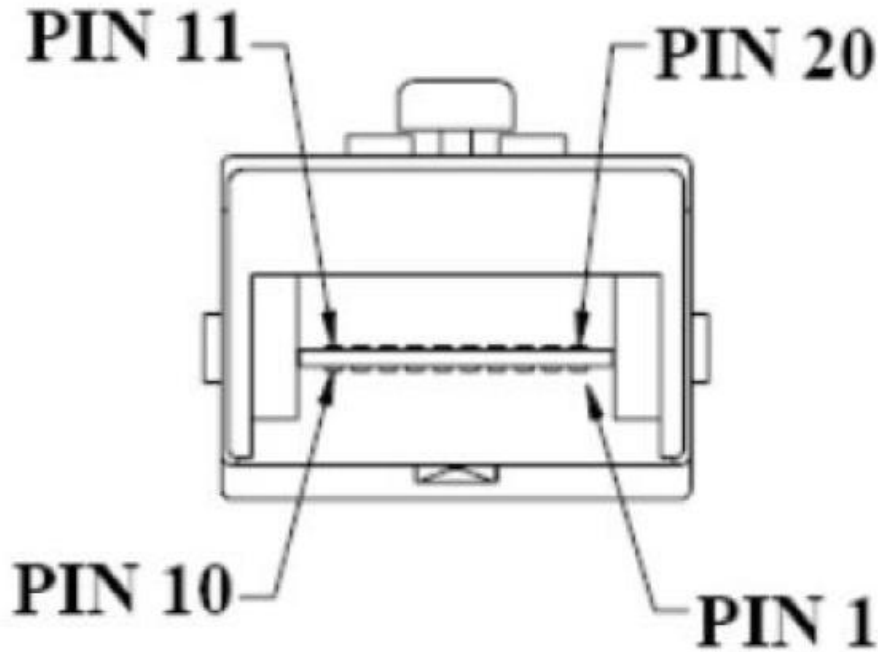
### Optical Characteristics

Parameter	Unit	Min.	Typ.	Max
<b>Transmitter</b>				
Output Optical Power	dBm	3		7
Optical Extinction Ratio	dB	9		
Optical Wavelength	nm	1500	1550	1580
Spectral Width	nm			1
Side Mode Suppression Ratio	dB	30		
<b>Receiver</b>				
Optical Center Wavelength	nm	1260		1600
Receiver Sensitivity @	dBm	-37		-10
LOS DE-Assert	dBm			-39
LOS Assert	dBm	-48		

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### PIN Layout





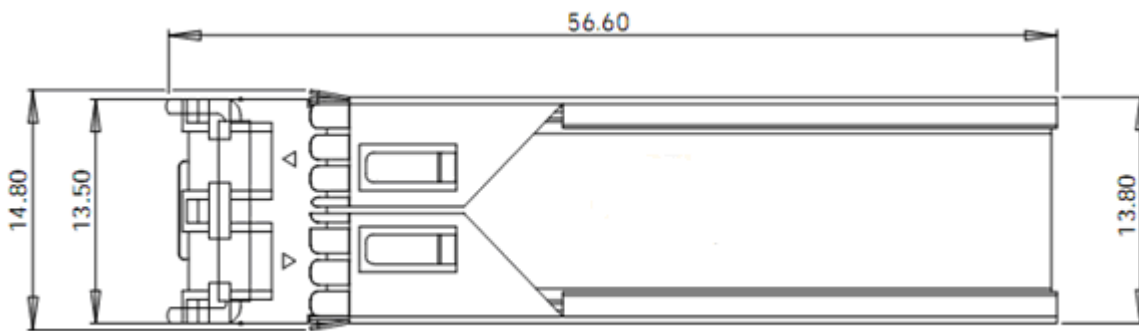
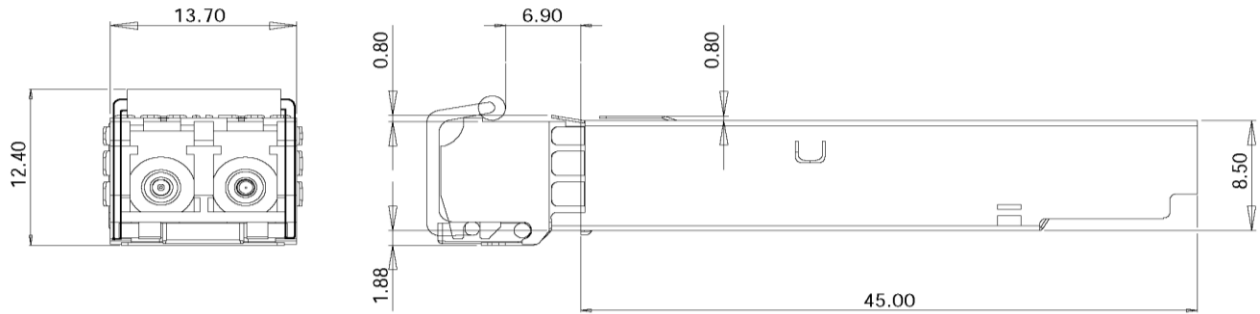
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### PIN Functions

Pin #	Name - Description
1	Transmitter Ground
2	Transmitter Fault Indication
3	Transmitter Disable
4	Module Definition 2
5	Module Definition 1
6	Module Definition 0
7	Not Connect
8	Loss of Signal
9	Receiver Ground
10	Receiver Ground
11	Receiver Ground
12	Inv. Received Data Out
13	Received Data Out
14	Receiver Ground
15	Receiver Power
16	Transmitter Power
17	Transmitter Ground
18	Transmit Data In
19	Inv. Transmit Data In
20	Transmitter Ground

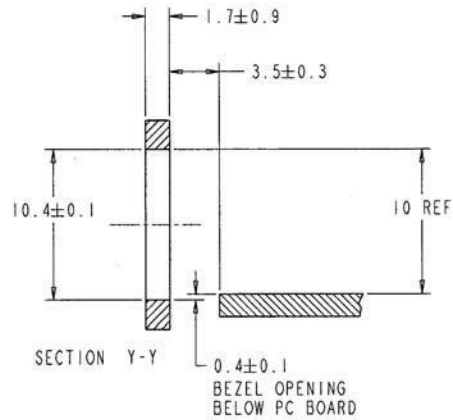
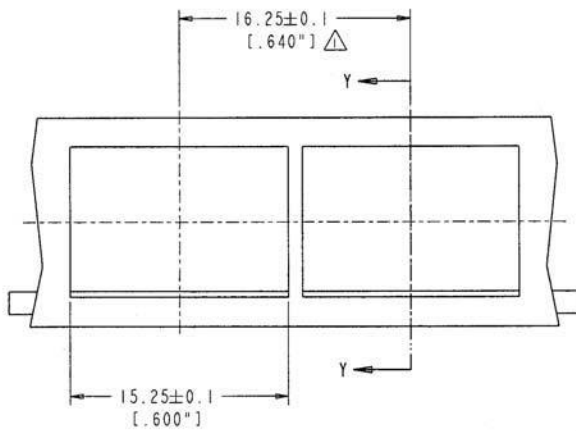
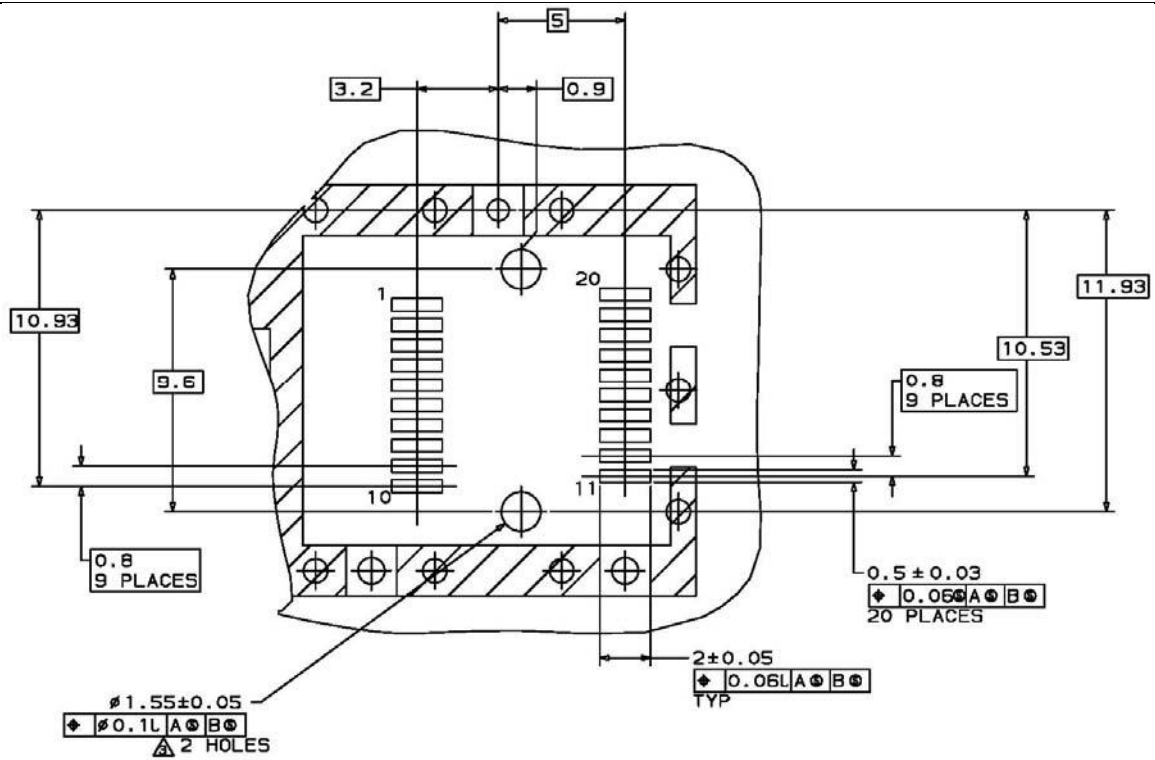
Mechanical Specifications

Small Form Factor Pluggable (SFP) transceivers are compatible with the dimensions defined by the SFP Multi-Sourcing Agreement (MSA).



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NOTES:

△ MINIMUM PITCH ILLUSTRATED, ENGLISH DIMENSIONS ARE FOR REFERENCE ONLY

2. NOT RECOMMENDED FOR PCI EXPANSION CARD APPLICATIONS