

Product  
**Specifications**
**1000BaseSX WDM Multimode SFP**
**KEY FEATURES:**

- Supports 1000base-SX up to 550m over either 50/125µm or 62.5/125µm Multimode fiber
- Multi-Source Agreement (MSA) Compliant
- Hot-pluggable
- extended temperature models available
- RoHS compliant and lead-free
- Single +3.3V power supply
- Compliant with SFF8472 diagnostic monitoring interface


**ORDERING INFORMATION:**

PART NO.	DESCRIPTION
AS40010	1000BaseSX WDM Multimode SFP Tx:1310nm, Rx:1550nm
AS40020	1000BaseSX WDM Multimode SFP Tx:1550nm, Rx:1310nm
AS41010	1000BaseSX Extended Temperature WDM Multimode SFP Tx:1310nm, Rx:1550nm
AS41020	1000BaseSX Extended Temperature WDM Multimode SFP Tx:1550nm, Rx:1310nm

**SPECIFICATIONS**
**APPLICABLE STANDARDS**

IEEE 802.3ah 1000Base-BX  
 IEEE 802.3z 1000Base-X

**3.3V ELECTRICAL POWER INTERFACE**

**Supply Current** : Max: 250mA  
**Input Voltage** : Typical: 3.3, Min: 3.13V, Max: 3.47V  
**Maximum Voltage** : 4V

**ENVIRONMENTAL CONDITIONS**

**Operating Temperature:**  
**AS400XX:** 0 to 158 °F (0 to 70 °C)  
**AS410XX:** -40 to 185 °F (-40 to 85 °C)  
**Storage Temperature:** -40 to 185 °F (-40 to 85 °C)  
**Operating RH:** 5 - 95% (non-condensing)

**WARRANTY**

5 - Year Limited Component

# Product Specifications

## OPTICAL CHARACTERISTICS:

PARAMETER	MIN	TYPICAL	MAX	UNIT	NOTE
<b>Transmitter</b>					
Output Launch. Power	-10	-	0	dBm	
AS40010 Center Wavelength	1270	1310	1355	nm	
AS40020 Center Wavelength	1530	1550	1570	nm	
Spectral Width (RMS)			4	nm	
Extinction Ratio	9		-	dB	
Optical Eye Mask	Compatible with IEEE 802.3z				
<b>Receiver</b>					
Receiver Sensitivity			-20	dBm	1
Maximum input Power	-3			dBm	1
AS40010 Optical Center Wavelength	1470		1600	nm	
AS40020 Optical Center Wavelength	1260		1360	nm	
LOS De-Assert			-21	dBm	
LOS Assert	-35			dBm	
LOS Hysteresis	0.5			dB	
Differential Data Output Voltage	600		1000	mV	
Receiver LOS Signal Output Voltage-Low	GND		0.8	V	
Receiver LOS Signal Output Voltage-High	2.0		Vcc	V	

## NOTES:

1. Measured with a PRBS 2<sup>7</sup>-1 test pattern @ 125Mbps BER<10<sup>-10</sup>

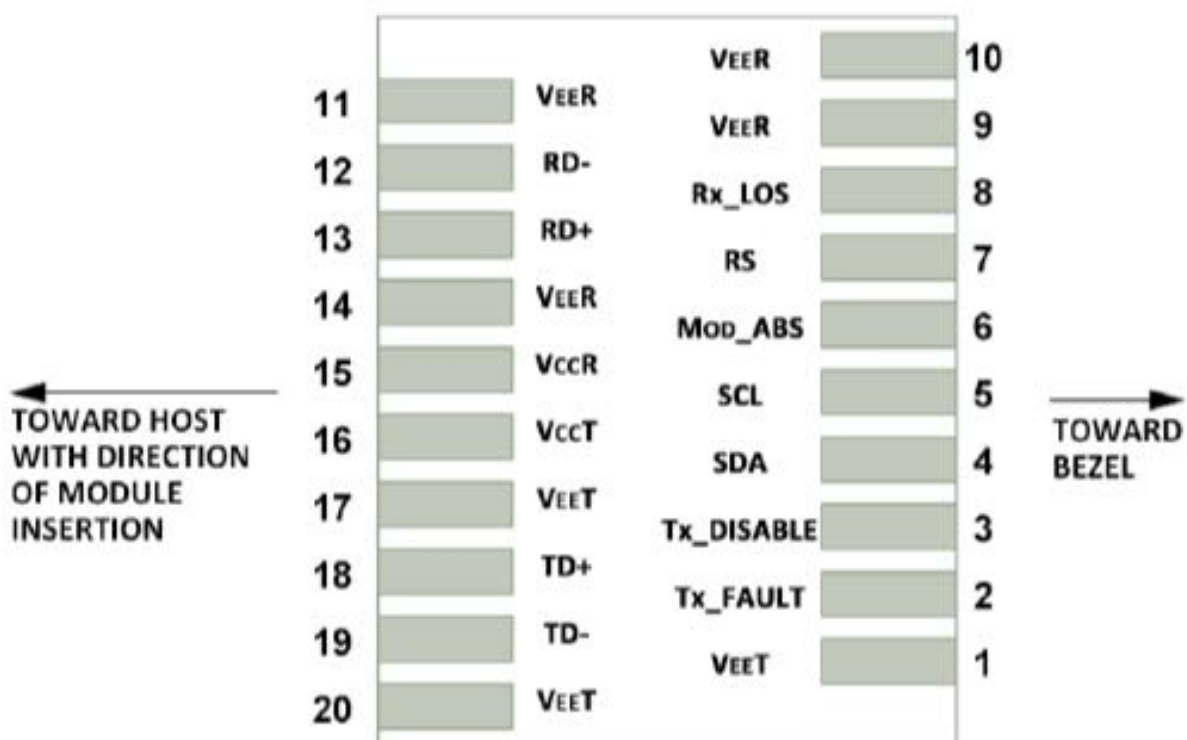


Figure 1. Diagram of host board connector block pin numbers and names

# Specifications

MECHANICAL DIMENSIONS (MM)

