

# AVN-SFPL2

## SFP GIGABIT FIBER TRANSCEIVER MODULE TO RJ45 CONNECTION



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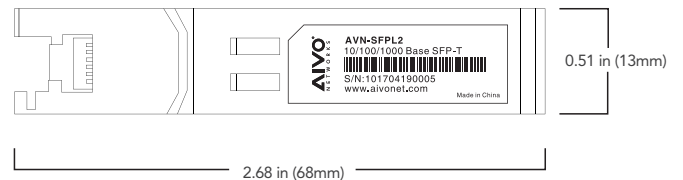
1000 BASE-T Copper Small Form Pluggable (SFP) transceivers are based on the SFP Multi Source Agreement (MSA). They are compatible with the Gigabit Ethernet and 1000BASE-T standards as specified in IEEE Std 802.3 . The 1000 BASE-T physical layer IC (PHY) can be accessed via I2C, allowing access to all PHY settings and features. 1000 BASE-T Copper Small Form Pluggable (SFP) transceivers are based on the SFP Multi Source Agreement (MSA). They are compatible with the Gigabit Ethernet and 1000BASE-T standards as specified in IEEE Std 802.3 . The 1000 BASE-T physical layer IC (PHY) can be accessed via I2C, allowing access to all PHY settings and features. It supports a SERDES, does not have a link indication feature, and 1000BASE-X auto-negotiation should be disabled on host system

## FUNCTIONS

- Up to 1.25 Gb/s bi-directional data links
- Low power dissipation(1.05W typical)
- Compact RJ-45 connector assembly
- Fully metal enclosure, for lower EMI
- RoHS compliant and lead-free
- Single +3.3V power supply
- Case operating temperature:
  - Commercial: 0°C to +70°C
  - Extended: -10°C to +80°C
  - Industrial: -40°C to +85°C

## DIMENSIONS

Unit : inch (mm)



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## SPECIFICATIONS

DESCRIPTION	
Supply Current	typ. 320 mA
Input Voltage	typ. 3.3 V
Maximum Voltage	4 V
Surge Current	30 mA
SFP Output LOW	0 V ~ 0.5 V
SFP Output HIGH	host_Vcc -0.5 V ~ host_Vcc + 0.3 V
SFP Input LOW	0 V ~ 0.8 V
SFP Input HIGH	2 V ~ Vcc + 0.3 V
<b>High-Speed Electrical Interface,</b>	
<b>Transmission Line-SFP</b>	
Line Frequency	typ. 125 MHz
Tx Output Impedance	typ. 100 Ohm
Rx Input Impedance	typ. 100 Ohm
<b>High-Speed Electrical Interface,</b>	
<b>Host-SFP</b>	
Single ended data input swing	250 mV ~ 1200 mV
Single ended data output swing	350 mV ~ 800 mV
Rise/Fall Time	typ. 175 psec
Tx Input Impedance	typ. 50 Ohm
Rx Output Impedance	typ. 50 Ohm
<b>General</b>	
Data Rate	10 Mb/sec ~ 1000 Mb/sec
Cable Length	100 m
Case Operating Temperature	
Commercial	0°C ~ 70°C
Extended	-10°C ~ 80°C
Industrial	-40°C ~ 85°C
Storage Temperature (ambient)	-40°C ~ 85°C
Dimensions (W x L x H)	(68mm x 13mm x 13mm)

