

## SFP-SX v2

### 1000Base-SX MiniGBIC Transceiver, LC connector, 500m

The SFP-SX v2 is a high performance and cost-effective module for serial optical data communication applications specified for multimode of 1.25 Gb/s. The module is intended for multimode mode fiber, operates at a nominal wavelength of 850nm. The module is a duplex LC connector transceiver designed for use in Gigabit Ethernet applications and to provide IEEE802.3z compliant link from 125Mbps to 2.125Gbps applications.



#### Specifications

##### General

###### Supply Voltage

- 3.1~3.5V

###### Supply Current

- 250 mA

###### Operating Temperature

- 0°C~70°C

###### Storage Temperature

- -40°C~85°C

###### Produce Weight (g)

- 6g

###### Dimensions

- 58 x 13 x 12 mm

##### Transmitter (Electrical - Optical)

###### Output Power

- -9.5 dBm ~ -3 dBm

###### Extinction Ratio

- >9 dB

###### Coupled Power Ratio

- >9 dB

###### Wavelength

- 830~860nm

###### Spectral Width (RMS)

- 0.85 nm

###### Rise/Fall Time, (20~80%)

- 260 ps

###### Relative Intensity Noise

- -117dB/Hz

###### Total Jitter

- 227 ps

###### Eye Mask

- Compliant with IEEE 802.3z

###### Max. Pout TX-DISABLE Asserted

- -45 dBm

**Differential Input Voltage**

- 0.4 V ~ 2.0V

**Receiver Specifications  
(Electrical-optical)**

**Optical Input Power-maximum**

- -3 dBm (BER < 10<sup>-12</sup>)

**Optical Input Power-minimum (Sensitivity)**

- -18 dBm (BER < 10<sup>-12</sup>)

**Wavelength**

- 770-860 nm

**Optical Return Loss**

- 12 dB

**Loss of Signal-Asserted**

- -20 dBm

**Loss of Signal-Deasserted**

- -35 dBm

**Differential Output Voltage**

- 0.5 V ~ 1.2 V

**Data Output Rise, Fall Time (20-80%)**

- 0.35 ns

**Receiver Loss of Signal Output Voltage-Low**

- 0 V ~ 0.5V

**Receiver Loss of Signal Output Voltage-High**

- 2.4 V

**Ordering Information:**

**AirLive SFP-SX v2** 1000Base-SX MiniGBIC Transceiver, LC connector, 500m