

SO-SFP-1000Base-BX35

1.25 Gb/s bi-directional 1310/1550 SFP transceiver family

INTRODUCTION

The SO-SFP-1000Base-Bx are fully compliant with the latest industrial SFP Multi-Source Agreement (MSA) and IEEE 802.3ah for Gigabit Ethernet 1000Base-BX. They support data rate of 1250 Mbps and can be used in datacom or FTTx applications. The transceivers operate bi-directionally for single fiber operation at operating wavelengths of 1310 nm and 1550 nm. The modules are hot pluggable and come in two variant for 10 km and 20 km transmission on SM fiber.

APPLICATIONS

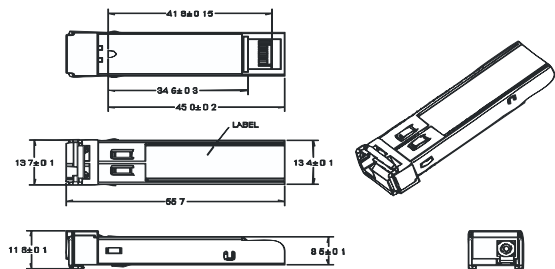
- single fiber operations
- Gigabit Ethernet
- FTTx

FEATURES

- Up to 10 km, 20 km and 40 km transmission on SM fiber
- 1310 nm / 1550 nm operation
- Hot-Pluggable SFP footprint
- Optical LC interface for bi-directional operation
- Industrial operating temperature -40 °C to 85 °C

LASER SAFETY

This singlemode transceiver is a Class 1 laser product. It complies with IEC-60825 and FDA 21 CFR 1040.10 and 1040.11. The transceiver must be operated within the specified temperature and voltage limits. The optical ports of the module shall be terminated with an optical connector or with a dust plug.



Specification subject to change without notice.

Optical Parameters:

| Part no.\Parameter | Wavelength [nm] | Opt. Output Power [dBm] | Opt. Receiver Sensitivity [dBm] | Power Budget [dB] |
|--------------------|-----------------|-------------------------|---------------------------------|-------------------|
| SO-SFP-1000BX-10U | 1310Tx/1550Rx | -9 to -3 | -19.5 to -3 | 10.5 |
| SO-SFP-1000BX-10D | 1550Tx/1310Rx | -9 to -3 | -19.5 to -3 | 10.5 |
| SO-SFP-1000BX-20U | 1310Tx/1550Rx | -8 to -3 | -23 to -3 | 15 |
| SO-SFP-1000BX-20D | 1550Tx/1310Rx | -8 to -3 | -23 to -3 | 15 |
| SO-SFP-1000BX-40U | 1310Tx/1550Rx | -3 to +2 | -25 to -3 | 22 |
| SO-SFP-1000BX-40D | 1550Tx/1310Rx | -3 to +2 | -25 to -3 | 22 |

Ordering Information:

| Part no: | Description/Application |
|-------------------|--|
| SO-SFP-1000BX-10U | operates on SM single fiber spans up to 10 km. In a link a 1000BX-10U transceiver must match a 1000BX-10D transceiver. |
| SO-SFP-1000BX-10D | |
| SO-SFP-1000BX-20U | operates on SM single fiber spans up to 20 km. In a link a 1000BX-20U transceiver must match a 1000BX-20D transceiver. |
| SO-SFP-1000BX-20D | |
| SO-SFP-1000BX-40U | operates on SM single fiber spans up to 40 km. In a link a 1000BX-40U transceiver must match a 1000BX-40D transceiver. |
| SO-SFP-1000BX-40D | |