

10 Gb/s XENPAK ZR Transceiver

INTRODUCTION

The SO-XENPAK-ZR is a highly integrated, serial optical transceiver module for high-speed, 10Gbit/s data transmission applications. The module is fully compliant to IEEE 802.3ae standard for Ethernet making it ideally suited for 10 GbE applications. The modules operate at 1550 nm and is designed for distances of up to 80 km. The transceiver module comprises a transmitter with an externally modulated laser (DFB-EA), a receiver with an APD photodiode, a XAUI-Attachment Interface, an integrated Coder / Decoder and multiplexer / demultiplexer (SERDES: Serializer / Deserializer). The transceiver operates within a wide temperature range of 0°C to +70°C and offers optimum heat dissipation and excellent electromagnetic shielding. A 70 pin electrical connector and a duplex SC connector optical interface assure the XENPAK MSA compliant connectivity.

APPLICATIONS

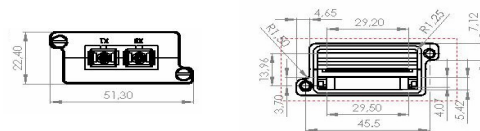
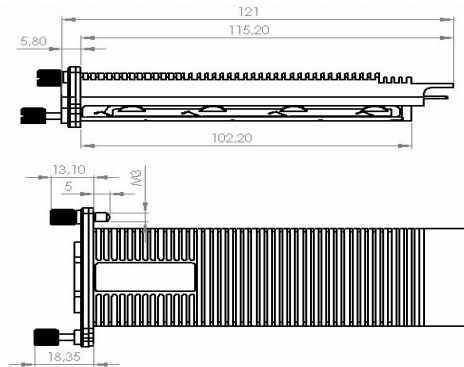
- IEEE 802.3ae 10GBASE-ZR 10.3125 Gb/s
- Regional Networking
- Metropolitan Area Networking
- Inter and Intra Campus
- Data Centers

FEATURES

- Compliant to IEEE 802.3ae 10GBASE-ZR at 10.3125 Gbit/s
- Up to 80 km transmission on 9/125 μm SMF G.652
- 24 dB link budget
- Laser Class 1 compliant
- Hot-Pluggable 70 pin connector with XAUI interface
- Alarms, controls and performance monitoring
- DFB-EA laser
- Duplex SC-connector interface
- Compliant with the EU RoHS 6 Environmental Requirements

LASER SAFETY

This optical 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 need to be terminated with an optical connector or with a dust plug.



Specification subject to change without notice.

Ordering Information:

Part no:	Description/Application
SO-XENPAK-ZR	10 GBASE-ZR 10.3125 Gb/s transceiver operates at 1550 nm for up to 80 km

Optical Parameters:

Part no.\Parameter	Wavelength [nm]	Opt. Output Power [dBm]	Opt. Receiver Sensitivity [dBm]	Power Budget [dB]
SO-XENPAK-ZR	1550 nm	0 to +4	-24 to -7*	24 dB

* When shorter distances of optical fiber are used an attenuator must be used to avoid overloading and damaging of the optical APD receiver.