

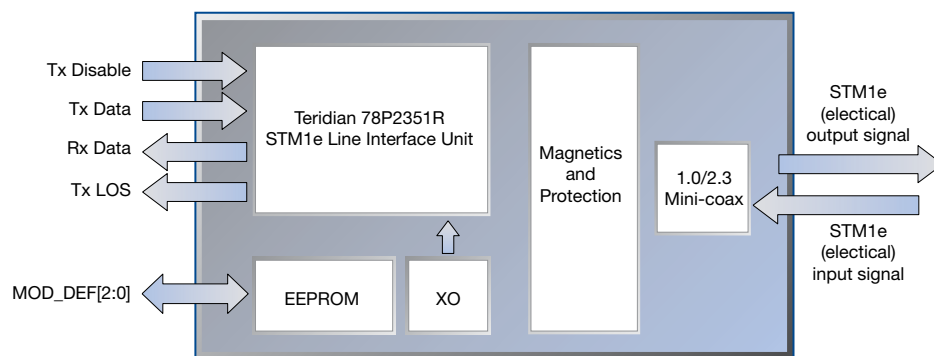
STM1e SFP Module

Reduce development costs for SDH Network OEM vendors and improves end user flexibility

The STM1e SFP is a Small Form-factor Pluggable (SFP) transceiver compatible with the Multi Source Agreement (MSA) for SFPs. The module utilizes Teridian Semiconductor's latest generation of Line Interface Units (LIUs) for 155 Mbit/s electrical SONET/SDH interfaces (STM1e). It also includes all the necessary components for interfacing to 75Ω telecommunications coaxial cable.

The 78P2351R physical layer IC includes Clock & Data Recovery in both directions, an adaptive receiver equalizer, and a CMI encoder/decoder for transparent NRZ to CMI line code conversion. It provides Receive Loss of Signal (LOS) detection and the option to disable (and tri-state) the transmit driver. A serial interface provides access to an on board E2PROM for identification information.

Transceiver Functional Diagram



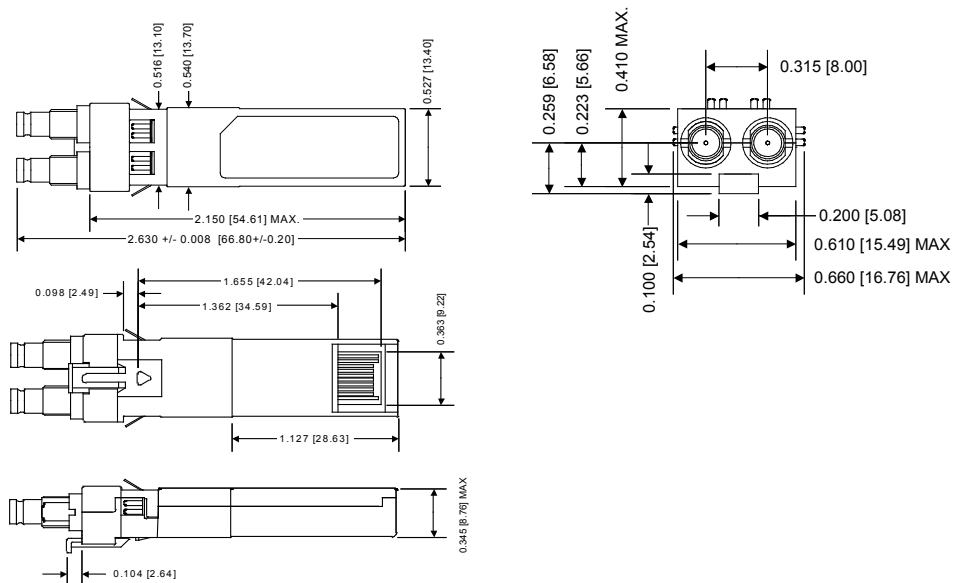
Benefits

- Compatible with existing OC3/STM10 line cards using the pluggable SFP form factor
- Provides end user additional flexibility on a per port basis
- Reduces cost to system developers for offering STM1 electrical interfaces

Features

- Compatible with the Multi-Source Agreement (MSA) for SFP transceivers
- 75Ω coaxial line interface compliant with ITU-T G.703/G.783 and Telcordia GR-253 for CMI coded 155Mbps electrical interfaces
- ITU-T G.783 compatible loss of signal detect
- Transmit power down supported
- Handles over 12.7dB of cable loss
- Extended Temperature operation: -10 C to 85 C
- 1.0/2.3 coaxial interface (Type A or D coupling)
- Low power dissipation (0.6 W typical)

Mechanical Specifications



Ordering Information

PART DESCRIPTION	ORDERING NUMBER
STM1E-SFP EVAL KIT*	STM1E-SFP/EVK
STM1e-SFPxx-Grounds Isolated	STM1E-SFP02
STM1e-SFPxx-Grounds Connected	STM1E-SFP08

*Include 1.0/2.3 to BMC cable assemblies and test board



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For immediate technical information and the name of a local representative or distributor, visit www.teridian.com, send an e-mail to support@teridian.com or call (714) 508-8800.

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8/05 - rev 1.0