

阅读申明

- 1.本站收集的数据手册和产品资料都来自互联网，版权归原作者所有。如读者和版权方有任何异议请及时告之，我们将妥善解决。
- 2.本站提供的中文数据手册是英文数据手册的中文翻译，其目的是协助用户阅读，该译文无法自动跟随原稿更新，同时也可能存在翻译上的不当。建议读者以英文原稿为参考以便获得更精准的信息。
- 3.本站提供的产品资料，来自厂商的技术支持或者使用者的心得体会等，其内容可能存在描述上的差异，建议读者做出适当判断。
- 4.如需与我们联系，请发邮件到marketing@iczoom.com，主题请标有“数据手册”字样。

Read Statement

1. The datasheets and other product information on the site are all from network reference or other public materials, and the copyright belongs to the original author and original published source. If readers and copyright owners have any objections, please contact us and we will deal with it in a timely manner.
2. The Chinese datasheets provided on the website is a Chinese translation of the English datasheets. Its purpose is for reader's learning exchange only and do not involve commercial purposes. The translation cannot be automatically updated with the original manuscript, and there may also be improper translations. Readers are advised to use the English manuscript as a reference for more accurate information.
3. All product information provided on the website refer to solutions from manufacturers' technical support or users the contents may have differences in description, and readers are advised to take the original article as the standard.
4. If you have any questions, please contact us at marketing@iczoom.com and mark the subject with "Datasheets" .



Product Brief

Intel® TXN31015

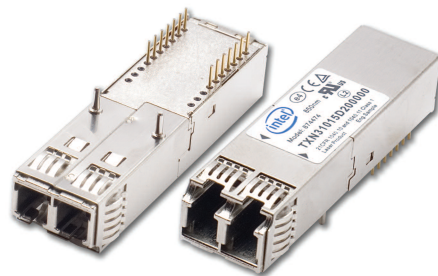
Quad-Rate Small Form Factor (SFF) Optical Transceiver

Optical Enterprise and Storage Solutions

Intel® TXN31015

Quad-Rate Small Form Factor (SFF) Optical Transceiver

Intel® optical components are modular building blocks that enable networking equipment manufacturers to create standards-based products with shorter time to market and reduced development costs. Developers can use these opto-electronic components to build optical network solutions to meet a variety of high-bandwidth requirements in SONET/SDH, Optical Transport Network, Storage, or Ethernet networks.



The Intel® TXN31015 Optical Transceiver uses an 850 nanometer wavelength light source that supports link distances up to 150 meters. This SFF module has an LC Duplex receptacle interface compatible with the industry-standard LC optical connector. This 4/2/1G module is Class 1 laser product compliant with FDA Radiation Performance Standards (21 CFR Subchapter J) and international safety standard IEC 60825 and IEC 60950.

Product Overview

The Intel® TXN31015 Quad-Rate Small Form Factor (SFF) Optical Transceiver is Multi-Source Agreement (MSA) compatible. It provides integrated duplex data links for bi-directional communication over multimode optical fiber. The transceiver module is designed for high-speed Fibre Channel data links supporting up to 4.25Gbps (4X Fibre Channel rate). This rate-agile transceiver module can also operate at the 1X and 2X Fibre Channel rates (1.0625Gbps and 2.125Gbps) and the Gigabit Ethernet rate (1.25Gbps) without the use of a rate-select pin.

Intel Advantage

The Intel® 4/2/1Gbps Optical Transceiver family is the newest addition to Intel's extensive product line of optical transceivers for enterprise and storage applications. Intel's worldwide manufacturing operation provides a reliable, high-volume supply of quality products with excellent performance.

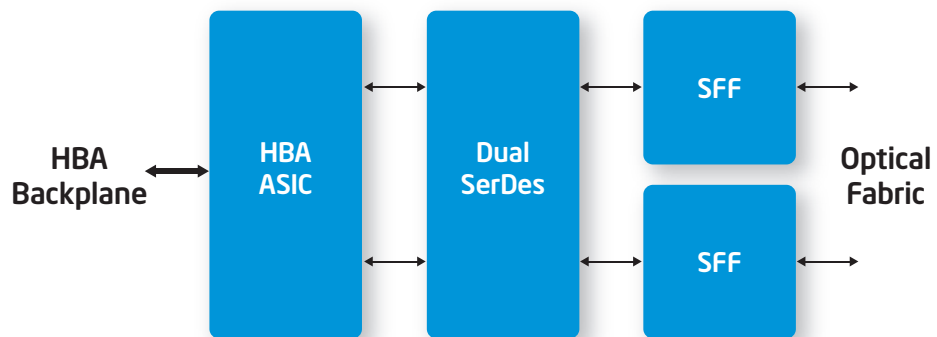
Product Highlights

- Compliant with Fibre Channel FC-PI standard
- 4.25/2.125/1.0625Gbps Fibre Channel compliant and 1.25Gbps Ethernet compatible
- Compatible with the SFF MSA specification
- Digital Diagnostics Monitoring support (SFF-8472)
- 850nm VCSEL
- TTL Loss of Signal (LOS) Output
- Transmitter Disable Input
- AC-coupled CML electrical Input/Output interface
- Class 1 Laser Safety product
- IEC 60825 and IEC 60950 safety certified
- Single +3.3V power supply
- 2x7 pin-out supports Digital Diagnostics
- Designed and verified as RoHS compliant

Key Applications

- Fibre Channel Host Bus Adapters (HBAs)

Dual-Port Host Bus Adapter Block Diagram



Features

Multi-rate support for 4/2/1G FC and GbE standards

Advanced EMI performance

Extended operating temperature range

Advanced ESD protection

Benefits

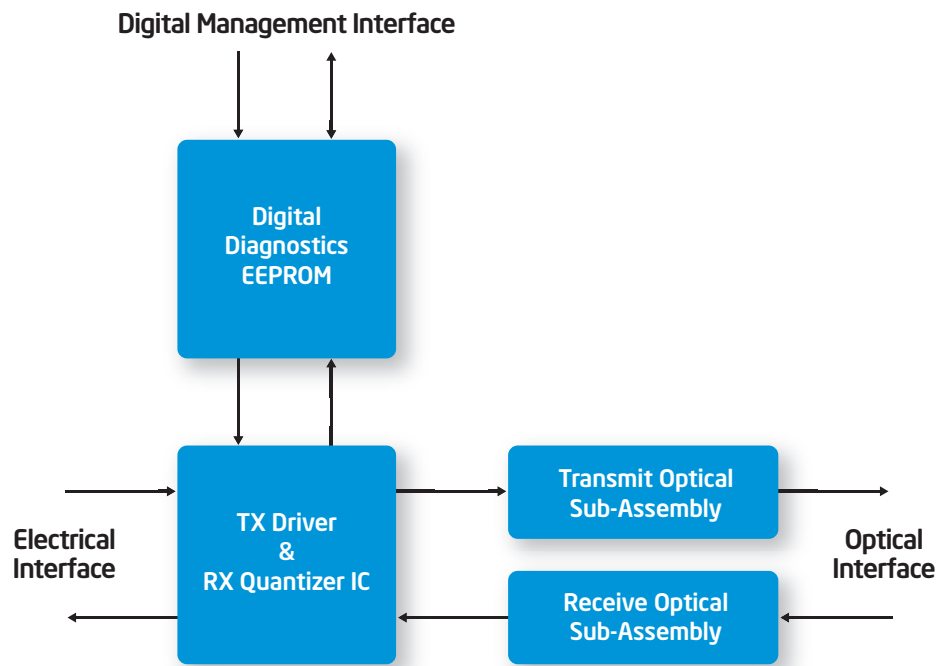
Streamline the module supply chain through the use of a single module to cover all FC data rates. Compatible with 1GbE link.

Reduce overall system noise in high-port-density configurations

Meets stringent operating temperature requirements of Fibre Channel applications

Avoid ESD damage due to mishandling

SFF Optical Transceiver Internal Block Diagram



Support Collateral and Tools

The following documents are available only subject to NDA

Item	Description	Order Number
Evaluation Board	Intel® TXNEB31015 Evaluation Board and User Guide	Contact Local Sales Representative

Available Products

Part Number	Data Rate	Fiber Mode	Laser Wavelength	Link Distance	Operating Temperature
TXN31015D200000	Fibre Channel 4/2/1Gbps	Multimode	850nm	150m	-20 to 85°C

Intel Access

Hardware Design Resource Center	http://developer.intel.com
Networking Components Home Page	http://www.intel.com/netcomms/index.htm
Literature Ordering Center	http://www.intel.com/design/literature.com (800) 548-4725 7am - 7pm CST (USA and Canada) International Locations please call your local sales office.
General Information Hotline	(800) 628-8686 or (916) 356-3104 5am - 5pm PS

For more information, visit the Intel Web site at: developer.intel.com

UNITED STATES AND CANADA

Intel Corporation
Robert Noyce Bldg.
2200 Mission College Blvd.
P.O. Box 58119
Santa Clara, CA 95052-8119
USA

EUROPE

Intel Corporation (UK) Ltd.
Pipers Way
Swindon
Wiltshire SN3 1RJ
UK

ASIA-PACIFIC

Intel Semiconductor Ltd.
32/F Two Pacific Place
88 Queensway, Central
Hong Kong, SAR

JAPAN

Intel Japan (Tsukuba HQ)
5-6
Tokodai Tsukuba-shi
300-2635 Ibaraki-ken
Japan

SOUTH AMERICA

Intel Semicondutores do Brasil LTDA
Av. Dr. Chucri Zaidan, 940-10o andar
04583-904 Sao Paulo, SP
Brazil

Intel and the Intel logo are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

Information in this document is provided in connection with Intel® products. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Intel's Terms and Conditions of Sale for such products, Intel assumes no liability whatsoever, and Intel disclaims any express or implied warranty, relating to sale and/or use of Intel products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right. Intel products are not intended for use in medical, life-saving or life-sustaining applications. Intel may make changes to specifications and product descriptions at any time, without notice.

Designers must not rely on the absence or characteristics of any features or instructions marked "reserved" or "undefined." Intel reserves these for future definition and shall have no responsibility whatsoever for conflicts or incompatibilities arising from future changes to them.

* Other names and brands may be claimed as the property of others.

Copyright © 2006 Intel Corporation. All rights reserved.

1106/S2D/SI/PDF

Please Recycle

300463-002

