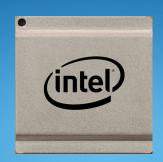


Intel® Ethernet Connection X557



10GBASE-T Connectivity Simplifies 10 Gb/s Ethernet Designs

Key Features

- Validated with Intel® Xeon®
 Processor D-based System-on-a-Chip (SoC) Product Family and Intel® Ethernet Controller
 XL710 family
- Single-port, dual-port, and quad-port 10GBASE-T PHY network interface
- Low power: 3.4 W/port
- Multi-speed: 100BASE-T, 1000BASE-T, and 10GBASE-T
- Designed to be used in conjunction with a triple-speed MAC interface. Interfaces supported: KR, XFI, KX, and SGMII
- IEEE 802.3az EEE (Energy Efficient Ethernet) Compliant
- On-die thermal sensor Enables deployment in thermally constrained environments along with alarm and warning thresholds
- External SPI Flash interface
- Integrated MDI filter and advanced RFI cancellation
- 19 x 19 mm (single/dual port) or 25 x 25 mm (quad port) flip-chip BGA package

Overview

The Intel® Ethernet Connection X557 family is a 10 Gigabit Ethernet (GbE) copper networking Physical Layer (PHY) for workstation, server, and embedded designs that have critical space and power constraints. The Intel® Ethernet Connection X557 family offers three design options: X557-AT (single 10 GbE PHY), the X557-AT2 (dual 10 GbE PHY), and the X557-AT4 (quad 10 GbE PHY) that provides connectivity for Network Interface Cards (NICs) and LAN on Motherboard (LOM) applications that require 10GBASE-T capability.

Power Savings

Power efficiency is critical to IT specialists as energy consumption is a real OpEx concern:

Energy Efficient Ethernet (EEE) reduces power consumption during periods of low data activity. Energy is used to maintain the physical layer transmitters in a ready state to transmit data on the wire. During periods of low data traffic, EEE sends a low-power-idle signal to put the transmitters into a low power state saving power and cost. When data needs to be sent, EEE sends a normal idle signal to wake up the transmit system before data is due to be sent so there is no degradation of performance.

FEATURES	DESCRIPTION	
GENERAL		
IEEE 802.3 auto-negotiation	Automatic link configuration for speed, duplex and flow control	
IEEE 802.3az EEE (Energy Efficient Ethernet) Compliant	Reduces power consumption during periods of low data activity	
Independent port enabling and link speeds	Each port can be configured and operated at different speeds and in different modes	
Automatic cross-over detection function (MDI/MDI-A)	The PHY automatically detects which application is being used and configures itself accordingly	
Autonomous on-die thermal management	Monitor on-die temperature and react when the temperature exceeds a pre-defined threshold	
Intel® Lead-free technology and RoHS-compliant	Complies with the European Union directive 2011/65/EU to reduce the use of hazardous materials	

INTEL® ETHERNET CONNECTION X557 PRODUCT CODES					
CONFIGURATION	PRODUCT CODE	PRODUCTION MM#	PRODUCTION S SPEC	MEDIA TYPE	
X557-AT	EZX557AT	941979	S LKW4	Tray	
X557-AT	EZX557AT	942009	S LKW5	Tape and Reel	
X557-AT2	EZX557AT2	941974	S LKVX	Tray	
X557-AT2	EZX557AT2	941994	S LKVY	Tape and Reel	
X557-AT4	EZX557AT4	941975	S LKVZ	Tray	
X557-AT4	EZX557AT4	941995	S LKW3	Tape and Reel	

SUPPORTED OPERATING SYSTEMS

For a complete list of supported network operating systems for Intel® Ethernet 500 Series Adapters visit: intel.com/support/EthernetOS

INTEL® ETHERNET ACCESSORIES

Intel® Ethernet Optics and Cables are proven, reliable solutions for high-density Ethernet connections. Combine these accessories with Intel® Ethernet 700 Series and 500 Series Network Adapters for dependable interoperability and consistent performance across the network. Learn more at intel.com/ethernet

Warranty

Intel limited lifetime hardware warranty, 90-day money-back guarantee (U.S. and Canada) and worldwide support.

Product Information

For information about Intel® Ethernet Products, visit: intel.com/ethernet

Customer Support

For customer support options in North America visit: intel.com/content/www/us/en/support/contact-support.html

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