EMULEX®

IOC/IOP 504

EMBEDDED STORAGE PROCESSORS

Complete Embedded Flexibility

The Emulex IOC/IOP 504 is a Fibre Channel I/O Controller/Processor designed for storage system providers that want flexibility in their storage controller interface designs. The IOC/IOP 504 offers multiple driver compatible interface solutions ranging from entry Fibre Channel to enterprise-class FICON by using Emulex's Service Level Interface (SLI). The Emulex SLI Technology allows storage system providers to leverage designs to many different applications to reduce development efforts and time to market. Only Emulex delivers complete embedded flexibility to storage system providers.

Available to OEMs only

Product and Feature Description

Emulex SLI™ Technology enables driver compatibility while delivering a very high level of compatibility across Fibre Channel and SATA solutions. Allows firmware to be upgraded independently of drivers, providing for an increased return on investment and investment protection.

Dual Integrated XScale Processors provides large L2 cache (512Kb) and up to 1.2 GHz processors for delivering high performance concurrent processing for protocol and application execution.

PCI-X and PCI-Express Interfaces uses the same ASIC for either interface to deliver flexibility and performance for increased system concurrency.

Emulex BlockGuard® - Emulex designed block data integrity, based on the ANSI T10 DIF standard, providing enhanced reliable delivery and validation of data across storage networks for end-to-end data protection.

KEY FEATURES:

- 4-port Fibre Channel I/O Controller/Processor
- Scalable from Entry Fibre Channel to Enterprise-class FICON Front-end Interfaces
- Flexible for Back-end Fibre Channel Initiator Applications
- Integrates Intel® 1.2 GHz XScale® Processor for High Performance
- Increased Investment Protection through Emulex's SLI™ Technology

IOC/IOP 504

EMBEDDED STORAGE CONTROLLERS

Specifications

Key Features of the IOC/IOP 504 Embedded Storage Controllers

Fibre Channel Standards

FC-PH-1, 2, 3 Fibre Channel Physical and Signaling Interface Standards

FC-PI Fibre Channel Physical Interfaces

FC-MJS Fibre Channel Methodologies for Jitter Specification

FC-AL-2 Fibre Channel Arbitrated Loop Standards

FCP Fibre Channel Protocol for SCSI Standard

FCP-2 Fibre Channel Protocol for SCSI, Second Version

FC-FS Fibre Channel Framing and Signaling Interface

Fibre Channel Ports

4

Fibre Channel Speeds

4 / 2 / 1Gb/s

Package Size

37.5 mm x 37.5 mm FCBGA5

Integrated Host Bus Interfaces

PCI Express 1.0a , PCI-X 2.0

Memory Controller

Multi-ported DDR2 400/533 MHz with ECC

Max Memory

2 GB

Emulex SLI™ Technology

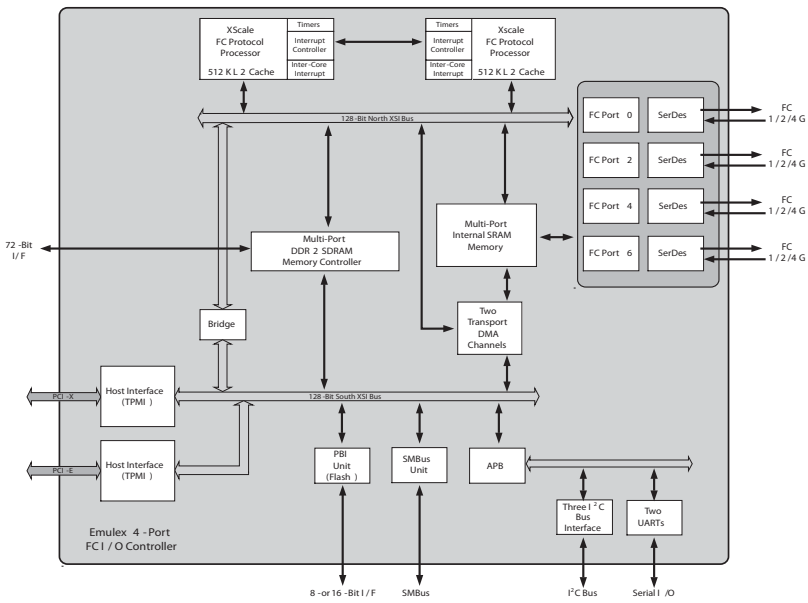
API to Driver

Ordering 504 Part Numbers

IOC 504: Quad 4Gb/s Fibre Channel Controller

IOC 504E: Quad 4Gb/s Fibre Channel Controller with Enterprise Firmware

IOP 504: 1.2GHz IOP with Quad 4Gb/s Fibre Channel Controller



RoHS 2002/95/EC COMPLIANT

EMULEX®

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