



SATA1616

Serial - ATA III 6G
2-port PCI Express RAID Controller



Introduction

SUNIX SATA1616 is a single-chip, PCI Express to two Serial-ATA (SATA) Gen III 6Gb/s channels RAID host controller that brings server-class features to the desktop. SATA1616 equips MARVELL high performance PCI Express chipset which supports all Serial ATA I, II, and III features. In addition, it built-in one standard SATA port for PC internal HDD connection, and one eSATA port for external enclosure high speed connection.

SATA1616 enables the use of the industry's newest and fastest hard drives at 6Gb/s while providing backward compatibility to legacy SATA 1.5Gb/s or 3Gb/s drives. It uses the same cable and connectors as previous SATA generations to ease integration. Besides, PCI Express 2.0 double the bandwidth of the existing PCI Express bus for faster data throughput. It will enhance system performance for every type of computer user. Each PCI-Express 2.0 lane provides up to 500MB/s of throughput. It also backward compatible with previous generation of PCI-Express 1.0 technology.

Features

- Supports PCI Express Specification Revision 2.0. (Compatible with PCI Express 1.0)
- Extends two Serial ATA Gen3 6Gb/s ports. (Compatible with SATA Gen1 and 2)
- Native Command Queue (NCQ) on SATA port.
- Supports up to two storage devices connection with RAID 0 and 1.
- Hardware RAID design reduces the system resource loading.
- Built-in one external eSATA port and one standard SATA port connectivity.
- Works with various brands of large capacity SATA hard disk drives.
- Low-profile design fitting for kinds of computer chassis. (Optional)
- Certified by CE, FCC, RoHS approval.
- Support Microsoft Windows and Linux.

Specification

- **Interface:** Single-Lane (x1) PCI Express Gen2
- **Mode:** Serial-ATA Generation- III
- **Controller:** MARVELL
- **Port:** One Internal SATA & One External SATA ports
- **Speed:** SATA III transfer rate of 6.0Gbps, 3.0Gbps 1.5Gbps
- **O.S. support:** Windows 2000/XP/2003/Vista/7 (32/64-bit)
Linux 2.6x, and DOS
- **Environment :** Operation temp.: 0 °C ~ 57 °C
Storage temp.: -20 °C ~ 85 °C
Operation humidity: 5 ~ 95% RH

Package Contents

1. SATA1616
2. User Manual
3. CD Driver
4. Serial-ATA internal Cable 50cm (Optional)

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