

It's All About Your Data

SATA300™ TX2plus 2+1 SATA/PATA Controller

SATA300™ TX2plus 2+1 SATA/PATA PCI Adapter

 **Cost-effective 2-port Serial ATA,
I-channel Parallel ATA adapter with
SATA 3Gb/s drive support for
motherboards with a PCI interface**



Cost-effective 2-Port SATA, I-Channel PATA Controller

The Promise SATA300 TX2plus 2+1 SATA/PATA PCI adapter offers the premier solution for combining the latest, high-performance SATA 3.0 Gb/s Serial ATA disk drives with existing Parallel (Ultra) ATA drives using the same controller. With the SATA300 TX2plus, users can connect up to two SATA drives and 2 PATA drives, offering users a cost-effective solution for upgrading their existing storage system with SATA 3Gb/s drives.

SATA 3Gb/s Support

While storage system performance is affected by components throughout the storage system, SATA drives with 3Gb/s can deliver significantly faster burst data throughput. Like a faster data cache, the faster burst rate when using the latest 3Gb/s drives should provide a snappier feel when opening small files and conducting the day-to-day tasks that many desktop and workstation PCs are required to perform.

The controller supports Serial ATA 3Gb/s drives and conforms to *Serial ATA II, Extensions to Serial ATA 1.0a* specification—including Native Command Queuing and Disk Activity LED headers support. In addition to NCQ, the controller also supports Tagged Command Queuing with drives that can take advantage of this capability. Command Queuing increases I/O performance by intelligently reordering data requests so that the data can be more quickly accessed than if the commands weren't ordered.

Parallel ATA from the Industry Leader

For support of legacy parallel ATA devices, the SATA300 TX2plus supports Ultra/ATA devices up to 133MB/sec data transfer rate. Drawing upon Promise's expertise in ATA, the controller incorporates performance enhancing features such as CRC error checking and separate timing for two devices attached to one ATA channel. The SATA300 TX2plus also supports parallel ATA devices.

SATA300™ TX2plus

- :: 2 SATA 3Gb/s Ports plus 1 Ultra ATA/133 Channel for support of up to 4 drives
- :: Native Command Queuing (NCQ)
- :: SATA Tagged Command Queuing (TCQ)
- :: Supports Serial ATA devices
- :: Flexible future-proof upgrade for users with motherboards that only have a PCI interface



Advanced HBA Features

The low-profile form factor SATA300 TX2plus PCI adapter incorporates many of Promise Technology's advanced host bus adapter features. The 66MHz PCI bus supports up to 266MB/sec burst data transfer rate. The SATA300 TX2plus also includes large LBA support for drives above 137GB, and its onboard BIOS automatically identifies and configures drive type (Serial ATA, Ultra DMA mode). The controller supports up to two controllers in the same system.

The Leader in SATA RAID

Promise Technology, Inc., recognized as the originator and worldwide leader of ATA RAID since 1997, has offered high-performance solutions for PC storage since 1988. Today the world's biggest OEMs and resellers look to Promise for ongoing innovations in ATA RAID design as the company continues to lead with the most powerful and economical alternatives to traditional RAID controllers and subsystems.

Specifications

Device Support

- 2 Serial ATA ports plus 1 Ultra/133 ATA channel for up to 4 devices (2 Serial ATA 3G devices and 2 Parallel ATA devices)

PCI Support

- 66 MHz PCI bus supports up to 266MB/sec burst data transfer rate
- PCI 2.3 compliant

Serial ATA Support

- Supports up to 2 Serial ATA devices
- Supports up to 300 MB/sec* transfers with CRC error-checking
- Compliant to Serial ATA Rev. 1.0a
- Compliant to Serial ATA II: Extensions to Serial ATA 1.0a including
 - Native Command Queuing
 - Staggered Drive Spin-Up
 - HDD Activity Indication
- Supports Serial ATA Tagged Command Queuing (TCQ)
- Serial ATAPI Support

Parallel ATA Support

- Supports up to 2 Ultra ATA devices
- Up to 133MB/sec data transfer rate in Ultra ATA DMA mode
- Supports ATAPI devices
- Supports CRC error-checking for Ultra ATA drives
- Separate timing control for two devices attached to one ATA channel
- Supports ATA specification 18" maximum cable length

Large LBA Support

- Supports drives larger than 137GB

Onboard BIOS

- Auto-identifies and configures drive and device types; BBS Compliant; Flash-Upgradable

Operating System Support

- Windows 2000, Windows Server 2003, Windows XP
- Red Hat Linux
- SuSE Linux
- Linux open source code

Physical and Environmental

- Low-profile form factor (HW): 2.25 x 4.69 inches (57 x 119 mm)
- Cables in kit
 - 2 x 25" (650mm) Serial ATA Cables
 - 1 x 18" (450mm) Parallel ATA Cable
- Operating temperature: 32 to 122°F (0 to 50°C)
- Relative humidity: 5%-95% non-condensing

Agency Certifications

- UL, cUL, CE, FCC Class B, BSMI, MIC, C-tick, VCCI

Limited Warranty

3 Years

* 300 MB/sec reflects the drive interface speed. Actual data transfer depends on drive make, motherboard, and PCI bus speed.

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