



SATA to PATA Adapter

Mode No.: PS421

Introduction

In spite of its success, the Parallel ATA interface has a long history of design issues. Most of these issues have been successfully worked around, overcome, or simply ignored. They include:

- 5-volt signaling requirement and high pin count (40-pin cable connectors)
- 18-inch cable length limitation; cable width and cable routing problems
- Data robustness issue

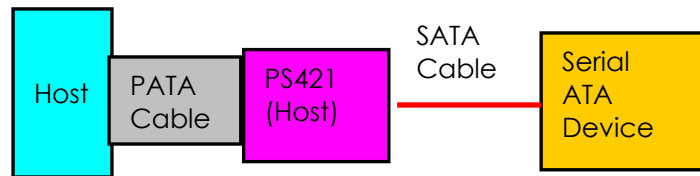
The PS421 is designed to adapt parallel devices to a serial host controller or adapt serial devices to a parallel host controller. Because the serial ATA architecture changes the physical interface layer only, it maintains register compatibility and software compatibility with parallel ATA. No device driver changes are necessary and the Serial ATA architecture is transparent to the BIOS and the operating system.

Features

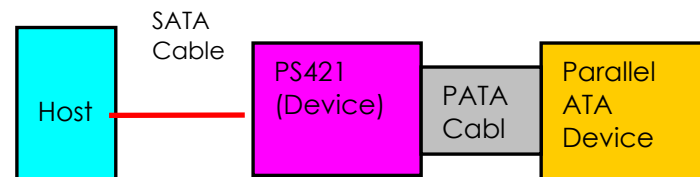
- ☞ Dual modes : PATA to SATA, and PATA to SATA
- ☞ Supports Serial ATA Rate up to 1.5Gb/s
- ☞ Eliminates Parallel ATA Cable Issues
- ☞ Supports Cable Length 1m or longer
- ☞ Improves Data Robustness of Parallel ATA
- ☞ Supports Hot Plug Features
- ☞ Supports Master/Slave Modes for Host Bridge
- ☞ Transparent to BIOS or OS, no driver is necessary
- ☞ Compact Size, Easy to fit different Applications

Specifications

Host Bridge Mode



Device Bridge Mode



Parallel ATA Interface

- Compliant with Ultra ATA Standard
- Soft 80-pin Cable Design Eliminates Mechanical issues for both Host and Device Side
- Ultra ATA-100 (100MB/S) by default. Ultra ATA-133 and ATA-150 available upon request
- Supports Parallel ATA hard drives greater than 137GB

Serial ATA Interface

- Compliant with Serial ATA 1.0 Specifications
- Supports Serial ATA hard drives greater than 137GB
- Supports Serial ATA devices with up to 1.5Gb/s rate (Serial ATA Generation 1)
- Cable Length up to 1 meter

Form Factor

2.21" x 1.26" (5.61cm x 3.21cm)