

SATA-to-Ultra ATA/133 Converter Board

1. Introduction

This SATA-to-Ultra ATA/133 Converter Board is a converter solution for the Parallel Ultra ATA Device. It has a standard 40 pin ATA port which can interface to IDE device (such as hard disk, CDROM, DVD, CD-RW, etc). It accepts Serial ATA commands through the SATA interface from the host, decodes the commands and converts them to parallel ATA commands to the device. Response from the device through the parallel ATA bus are deciphered, processed and converted to SATA protocol and sent to the host.

The Converter Board supports the SATA Generation 1 transfer rate of 1.5 Gb/s (150 MB/s) on the serial side and is compatible with Ultra ATA-133 on the parallel ATA side.

1.1. Features

1.1.1. Overall Features

- Compatible with Ultra ATA 133 specifications
- Supports all types of ATAPI, ATA/133, ATA/100, ATA/66, ATA/33, EIDE and IDE storage devices (DVD, DVD-RAM, MO, CD-ROM, CD-RW, Hard Disk,)

1.1.2. Serial ATA Features

- Compliant with Serial ATA 1.0 specifications
- Supports Serial ATA Generation 1 transfer rate of 1.5Gb/s
- Supports Spread Spectrum in receiver

2. Installation

- Step 1. Set IDE device (HDD, CD-RW,) on Master mode
- Step 2. Attaches 40 pin IDE connector to ATA (IDE) Device
- Step 3. Connect Y-type power cable to JR1 connector of the board and Power Supply
- Step 4. Connect Serial ATA cable to CON1 connector and SATA Host
- Step 5. Connect 2-Pin pin header to HDD LED Indicator in front panel

*** This board must attaches to IDE device. DO NOT power on this board

without device attached.

*** IDE mobile rack is NOT real plug & play device. We don't recommend this board work with mobile rack. If you really like to use with IDE mobile rack, HDD must be connected and power on. Don't remove mobile rack from your system.

*** If your DVD drive can't operate properly, JP2 shall be removed and keep on NC.