

The background of the entire page is a light gray, stylized circuit board pattern. It features a complex network of lines representing traces, with various circular and rectangular shapes representing components or vias. The pattern is dense and fills the entire page.

# IO-ASA150D

Version 1.1

# User Manual



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# Introduction

Serial ATA is an evolutionary replacement for the Parallel ATA physical storage interface. Serial ATA is scalable and will allow future enhancements to the computing platform.

## 1.0 Features

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This module corresponds to the Transport and command layer. This module exchanges the S-ATA protocol with Parallel ATA bus transaction. This module has registers that transfer length and command, and Task File (Shadow registers) for host bridge functions. This module performs AT-bus transactions, and supports PIO and Ultra-DMA.

- Serial ATA interface of 1.5 Gbps
- 1.8V and 3.3V power
- Supports 20, 25, 30 or 40 MHz reference clock

### Device Bridge Operation

- Supports PIO Mode 0-4
- Supports UDMA data transfer rates of 66, 100, 133 and 150MBps (*Don't support 33 MBps!!*)
- No single/Multi word DMA support
- Supports S-ATA Power Save mode
- Supports Hot-plug
- Supports Queue command (32 entries)
- Supports ATAPI device (CD-ROM,CD-R/RW,DVD-ROM)

## 2.0 System Requirements

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- The device must support Ultra ATA-66/100/133 mode.
- Supports Windows 98/ME, Windows NT4.0, Windows 2000 and Windows XP.

## 3.0 Installing IO-ASA150D

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1. Turn off your computer and all external devices connected to it.
2. Disconnect your computer from the power sources.
3. Connect the IO-ASA150D to your Hard Disk. Your Hard Disk must be set to “**Master Mode**”



IO-ASA1500D

4. Connect the 4-Pin power to IO-ASA150D.
5. Connect the Serial ATA Cable to IO-ASA150D. The other connector is to your motherboard's Serial ATA connector or SATA Card's connector.
6. Finished.