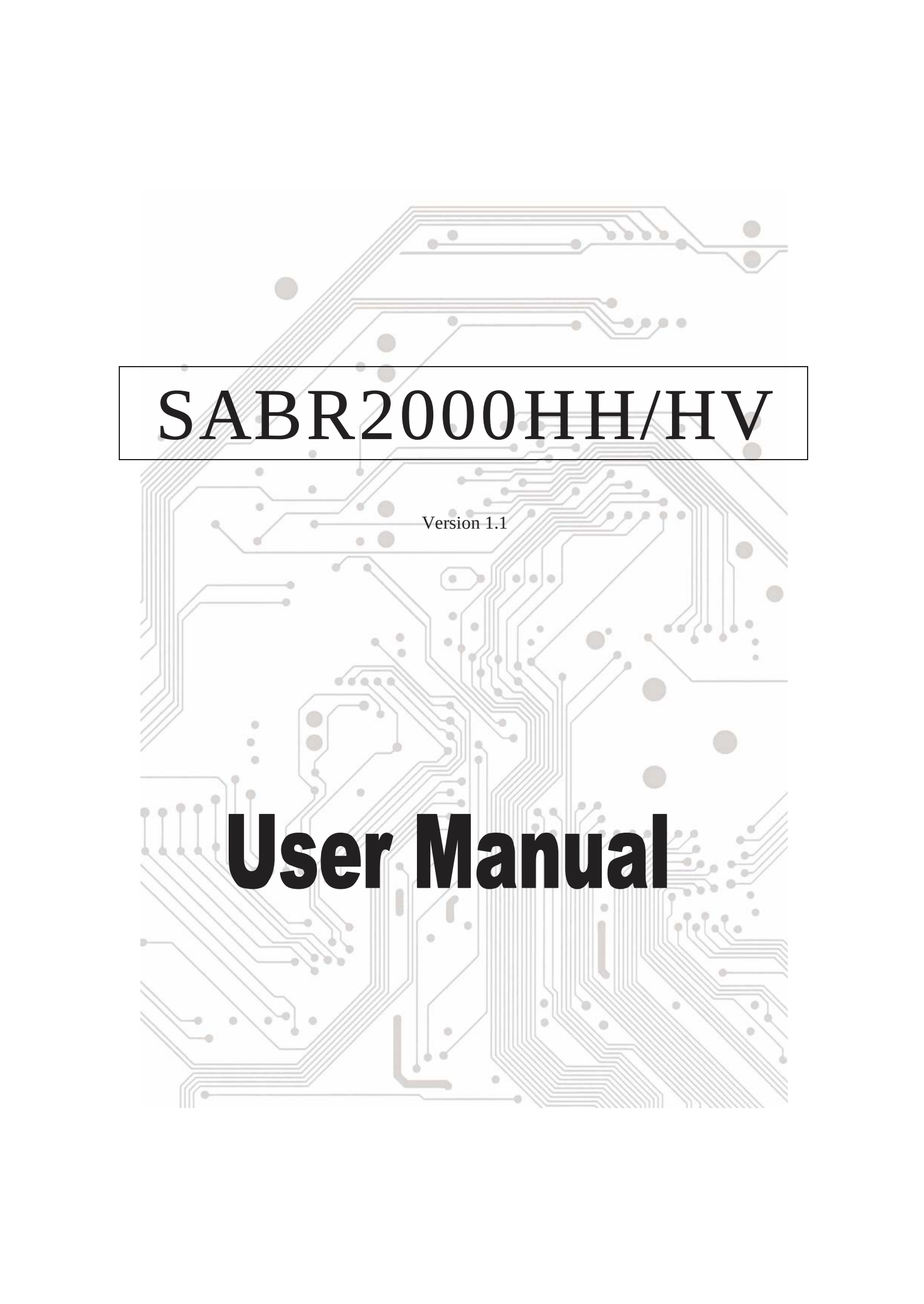


The background of the entire page is a light gray circuit board pattern. It features a complex network of thin, dark gray lines representing traces, which are interconnected by small circular pads. Some larger, solid gray circles are scattered across the board, possibly representing vias or component footprints. The pattern is dense and covers the entire area.

SABR2000HH/HV

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

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

Host Bridge Operation

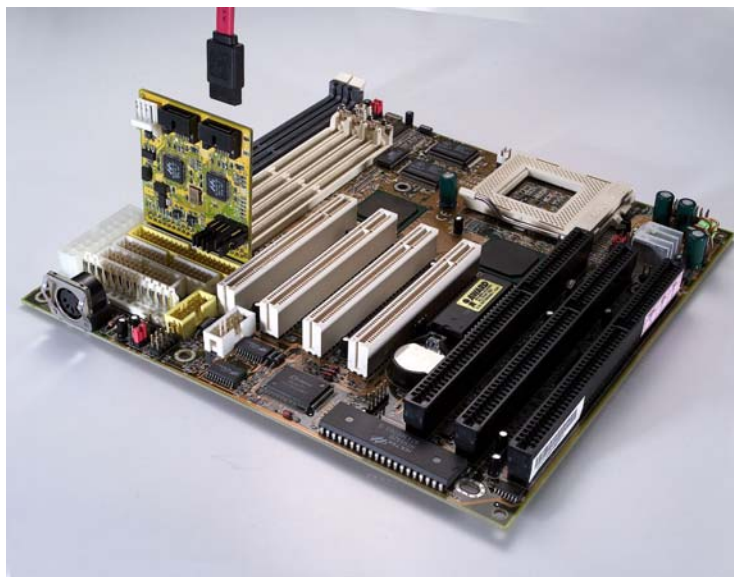
- Supports PIO Mode 0-4
- Supports UDMA data transfer rates of 66, 100, 133 and 150MBps (*Don't support 33 MBps!!*)
- No single/Multi word DMA support
- Supports Host termination and pausing
- Supports Master/Slave emulation
- Supports S-ATA Power Save mode
- Supports Hot-plug
- Supports Queue command (32 entries)
- Supports 2 channel and 2 devices
- Accepts Serial ATA commands from the host's Serial ATA interface, decodes the commands and converts them to Parallel ATA device commands. Through the Parallel ATA bus, responses from the device are deciphered, processed, converted to Serial ATA protocol and sent to the host.
- Supports PC Systems

2.0 System Requirements

- 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 the SABR2000 HH/HV

1. Turn off your computer.
2. Disconnect your computer from the power sources.
3. Connect the SABR2000HH/HV to your motherboard's IDE port.
4. Connect the Serial ATA Cable to SABR2000HH/HV. The other connector is to your Serial ATA Hard Disk or Serial ATA Devices.
5. Finished.



SABR2000HH