



# **AMD SB700 IDE Driver for Windows**



---

## **Trademarks**

AMD, the AMD Arrow logo, Athlon, and combinations thereof, ATI, ATI logo, Radeon, and Crossfire are trademarks of Advanced Micro Devices, Inc.

HyperTransport is a licensed trademark of the HyperTransport Technology Consortium.

Microsoft and Windows are registered trademarks of Microsoft Corporation.

Other product names used in this publication are for identification purposes only and may be trademarks of their respective companies.

## **Disclaimer**

The contents of this document are provided in connection with Advanced Micro Devices, Inc. ("AMD") products. AMD makes no representations or warranties with respect to the accuracy or completeness of the contents of this publication and reserves the right to make changes to specifications and product descriptions at any time without notice. No license, whether express, implied, arising by estoppel, or otherwise, to any intellectual property rights are granted by this publication. Except as set forth in AMD's Standard Terms and Conditions of Sale, AMD assumes no liability whatsoever, and disclaims any express or implied warranty, relating to its products including, but not limited to, the implied warranty of merchantability, fitness for a particular purpose, or infringement of any intellectual property right.

AMD's products are not designed, intended, authorized or warranted for use as components in systems intended for surgical implant into the body, or in other applications intended to support or sustain life, or in any other application in which the failure of AMD's product could create a situation where personal injury, death, or severe property or environmental damage may occur. AMD reserves the right to discontinue or make changes to its products at any time without notice.

---

## 1. Release History

---

Version	Release History
<b>5.1.0.8</b>	<b>Change history:</b> <ul style="list-style-type: none"><li>1) increase the version number to digital sign the .sys files.</li></ul> <b>Known Issues</b> <p>None</p>
<b>5.1.0.7</b>	<b>Change history:</b> <ul style="list-style-type: none"><li>1) Fixed .inf to pass chkinf test.</li><li>2) Fixed txtsetup.oem copying cat file error in Windows XP 64bit installation.</li></ul> <b>Known Issues</b> <p>None</p>



---

## 2. Introduction

---

SB700 IDE driver provides support for both IDE controller and SATA controller of AMD SB700. With this driver, Windows VISTA/XP's Device Manager can show correct SB700 SATA/IDE controller name and available channels of them.

The supported devices are list below:

Table 1

<b>Vender ID</b>	<b>Device ID</b>	<b>Description</b>
1002h	4390h	SATA controller(Native IDE mode)
1002h	4380h	SATA controller(Native IDE mode)
1002h	439ch	IDE Controller
1002h	438ch	IDE Controller
1002h	4376h	IDE Controller

### 2.1. SATA Controller(Native IDE mode)

The SATA controller(IDE emulation mode) is a SATA controller which works in SATA Native IDE emulation mode. It has 2 channels. Each channel can support up to 2 ATA/ATAPI devices.

In SATA IDE Combined Mode, 6 ports are all available. While the SATA IDE Combined Mode is disabled in BIOS setup, there are only 4 ports available.

### 2.2. IDE Controller

The IDE Controller of SB700 supports up to 2 channels. Each channel can support up to 2 ATA/ATAPI devices as well.

The actual supported number of channel of the IDE Controller depends on the settings in the BIOS CMOS setup utility.



---

In SATA IDE Combined Mode, 2 channels are both available. In this mode, the Port 4 and Port 5 of SATA controller will be combined into IDE control as Primary or Secondary channel.

If the SATA IDE Combined Mode is disabled in BIOS setup, there is only one channel enable. And the channel number also depends on the BIOS settings.

### **2.3. SATA Combine Mode**

AMD SB700 IDE controller has only one PATA channel which supports 2 ATA/ATAPI devices.

While in SATA Combine Mode, two SATA ports (port 4 and port5) are combined into one IDE channel (could be either Primary or Secondary channel) to IDE (PATA) controller. Therefore, IDE controller will have 2 channels (one PATA and one SATA) in SATA Combine Mode.



---

### 3. Installation Guide

---

To install SB700 IDE driver for windows, prepare a floppy and copy all the files in the driver package to the root, and press F6 to choose to load the SB700 IDE driver for Windows XP installation or choose load driver from the floppy for Windows Vista installation.

### 4. Manifest

---

A full package of AMD SB700 IDE driver for windows may consist of files list below:

For Windows XP 32bit and Windows XP 64bit

- XP\_2003\amdide.sys - driver's image file for XP/VISTA 32bit edition
- XP\_2003\amdide64.sys - driver's image file for XP/VISTA 64bit edition
- XP\_2003\amdhdc.inf - INF file of SB700 IDE driver for windows
- XP\_2003\amdhdc.cat - security catalog file for amdide.sys, amdide64.sys and amdhdc.inf
- XP\_2003\txtsetup.oem\* - txtsetup.oem for text-mode setup phase of operating system installation

For Windows Vista 32bit and Windows Vista 64bit

- VISTA\_LH\amdide.sys - driver's image file for XP/VISTA 32bit edition
- VISTA\_LH\amdide64.sys - driver's image file for XP/VISTA 64bit edition
- VISTA\_LH\amdhdc.inf - INF file of SB700 IDE driver for windows
- VISTA\_LH\amdhdc.cat - security catalog file for amdide.sys, amdide64.sys and amdhdc.inf

\* for text-mode setup phase of Windows XP installation, all files in the XP\_2003 folder have a copy in a floppy which labeled as "Installation Disk for AMD PCI SATA/IDE Controller".