



Installing Winbond Hardware Doctor* on the Intel® Server Board SAI2



Revision 2.0

February 2002

Enterprise Platforms and Services Division



Revision History

Date	Revision Number	Modifications
November 2001	1.0	Initial release.
February 2002	2.0	Updated to reflect new revision of software that eliminates the option to enable audible alerting functionality.

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Table of Contents

1. Introduction.....	5
1.1 What can Winbond Hardware Doctor* do?	5
1.2 Installation.....	5
2. Configuration and Usage	7
2.1 Saving threshold configurations	8
2.2 Configuration Menu	8
2.3 Change Password Screen	9
2.4 Warning messages	9
2.5 Further assistance	10

List of Figures

Figure 1-1 Winbond Hardware Doctor* welcome screen.....	05
Figure 1-2 Winbond Hardware Doctor* second installation screen.....	06
Figure 2-1 Winbond Hardware Doctor* Monitor Screen.....	07
Figure 2-2 Winbond Hardware Doctor* Configuration Screen.....	08
Figure 2-3 Winbond Hardware Doctor* Change Password Screen.....	09
Figure 2-4 Winbond Hardware Doctor* Example Warning Message.....	09

1. Introduction

Winbond Hardware Doctor* is a basic server hardware monitoring tool which alerts a system administrator if a hardware problem occurs on their Intel® SAI2 based server system. The tool is available on the SAI2 System Resource CD or available for download at <http://www.support.intel.com/support/motherboards/server/SAI2>. This tool is not designed by Intel Corporation, therefore any limitations or any outstanding issues of the software will not be fixed by Intel Corporation.

1.1 What can Winbond Hardware Doctor* do?

The Winbond Hardware Doctor utility can monitor voltage, processor temperatures, and processor fan speed on the Intel Server Board SAI2. This is done via the onboard Winbond Heceta chip. Features such as Out of Band (OOB) server management, and accessibility to the server via serial/EMP/LAN ports, are not included in Winbond Hardware Doctor.

This software is only intended for usage on the Intel Server Board SAI2 running Microsoft* Windows* 2000.

1.2 Installation

Once you have loaded your CD containing Winbond Hardware Doctor, proceed with the following steps.

1. Select the CD drive in explorer and double-click on “CSB5-HD-5C.exe.” The following screen will appear as shown in **figure 1-1**.
2. Left click the “next” button at the welcome screen as seen in **figure 1-1**.



Figure 1-1: Winbond Hardware Doctor* welcome screen.

3. Click “next” in the Ready to install menu as seen in **figure 1-2**.

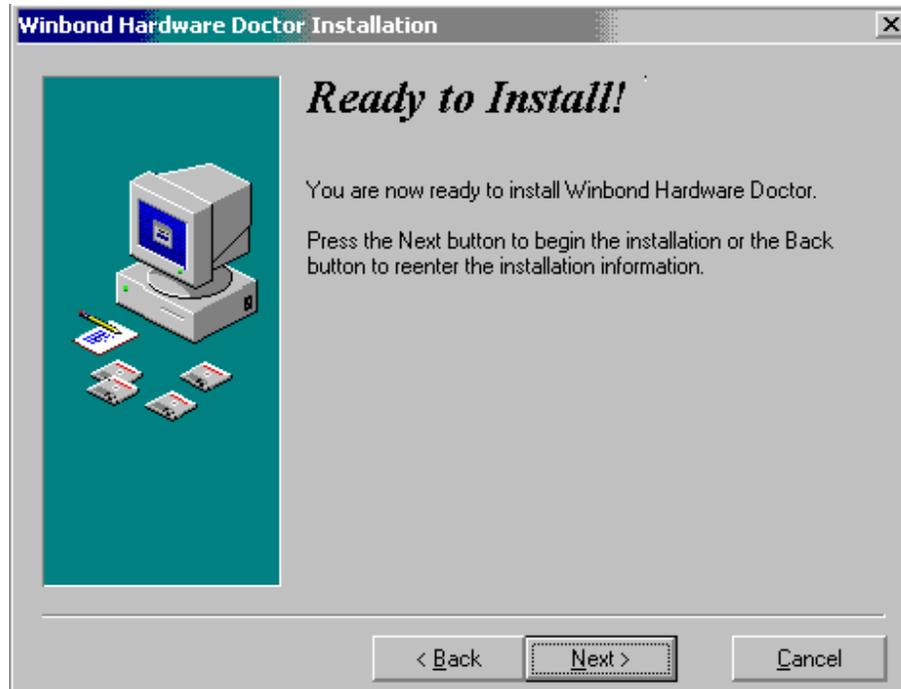


Figure 1-2: Winbond Hardware Doctor* second installation screen.

4. Proceed by clicking next, and files will be copied to the designated location. Reboot server as instructed when the installation has completed.

2. Configuration and Usage

Once Winbond Hardware Doctor* is installed, configuration and usage is simple. Launch the program from the Start | Programs | Hardware Doctor.

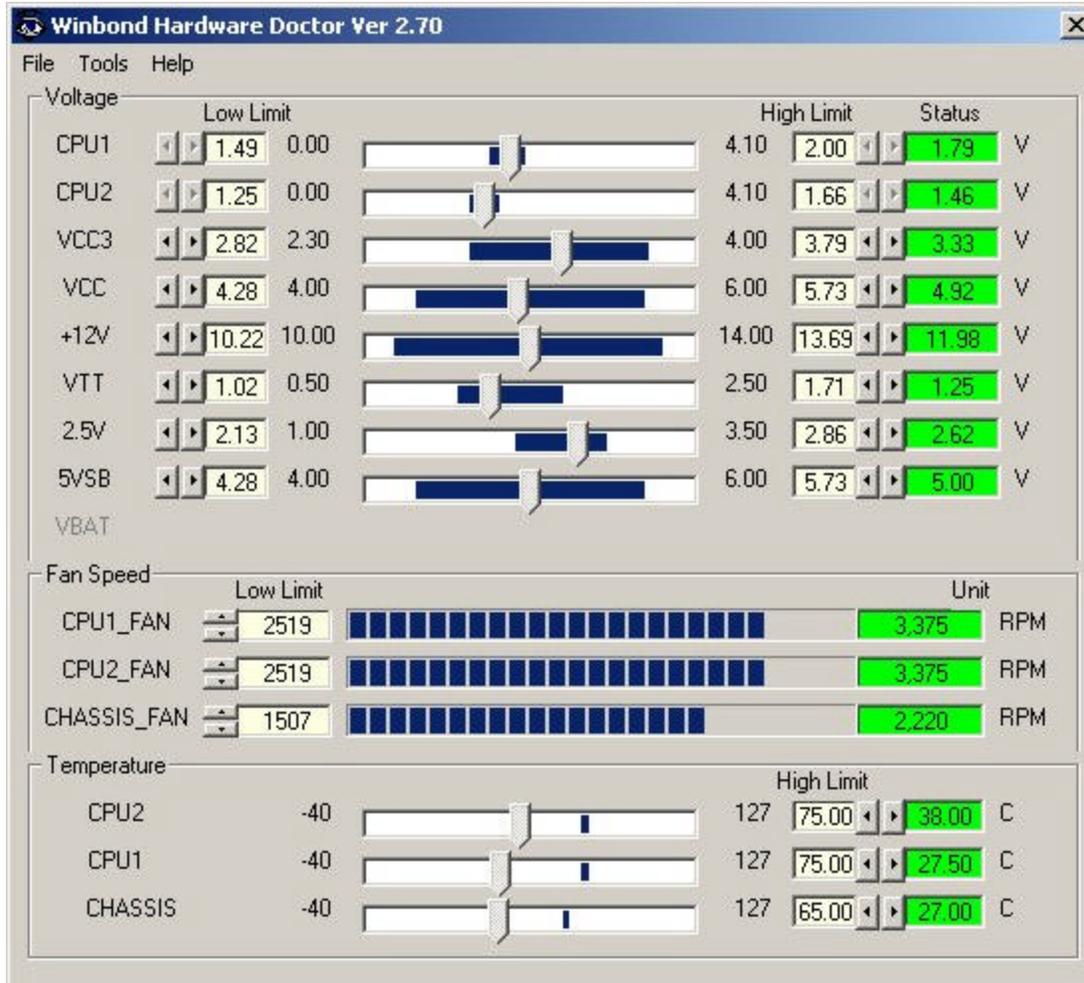


Figure 2-1^{1, 2}: The Monitor Screen provides low and high threshold controls with a visual bar indicator and a numeric indicator. This screen provides an alerting function with visual pop-up alerts when threshold limits have been exceeded.

¹ The values shown in the screen above are the default values for the Intel SC5100 chassis.

² The configuration screen above shows two processor fans and one chassis fan available for monitoring. The only chassis fan that is monitored on the SAI2 server board with Hardware Doctor is fan header 3.

2.1 Saving threshold configurations

In order to save modified thresholds for use on another system you can save thresholds from the File | Save menu. Once launched, you may immediately start to get system warnings depending on how your system is configured. By default, the Winbond Hardware Doctor utility is set up to monitor an Intel Server Board SAI2 in an Intel SC5100 chassis. If your configuration is different, you may need to adjust the high and low thresholds to suit your setup. An example system warning is shown in **figure 2-4**.

2.2 Configuration Menu

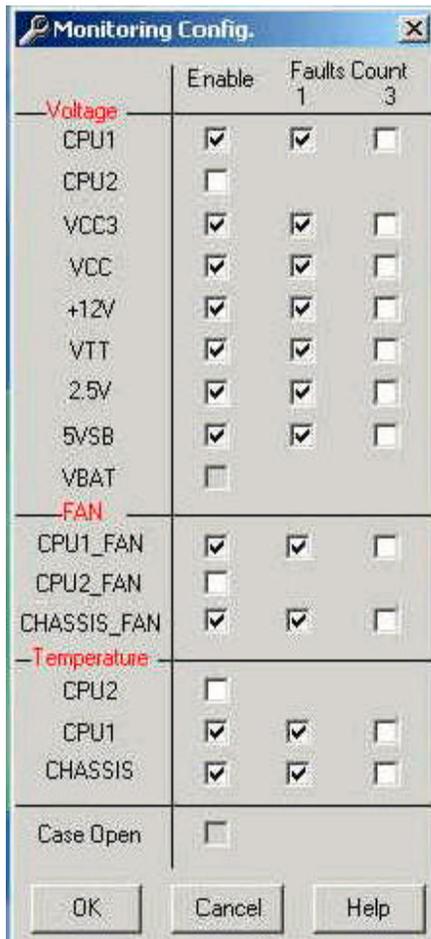


Figure 2-2: The Configuration Screen allows you to configure individual sensors and set alert characteristics.

2.3 Change Password Screen



Figure 2-3: The Change Password Screen is not used on the Intel Server Board SAI2.

2.4 Warning messages

As mentioned previously it may be necessary to modify the operating ranges for fans and voltages, based on system configuration. Also, note if a hardware error occurs it may be necessary to “shutdown” this system. The warning message additionally provides this option.



Figure 2-4: Example Warning Message.

2.5 Further assistance

This white paper is intended as a installation guide only. Refer the the help files contained in Winbond Hardware Doctor* for further configuration assistance.