ManageEasy

Legend QDI's Enhanced Client/Server Management Software

Legend ・QDI®

Where Innovation Comes Naturally

CONTENTS

1. Overview ---------- I
What is QDI ManageEasy® ---------- 1
QDI ManageEasy® Applications ---------- 1
Network support ---------- 2
Troubleshooting for network ---------- 2

2. Installation of QDI ManageEasy® ---------- 3
System requirements ---------- 3
Running the setup.exe program ---------- 3
The installation of the file to hard disk ---------- 4
Configuring QDM for your system ---------- 5
Complete Setup ---------- 7
Additional Support for other Motherboards ---------- 7

3. AMA user's guide ---------- 9
How to start AMA ---------- 9
How to Connect a computer Installed in QDI ManageEasy® ---------- 10
Viewing the remote computer's DMI BIOS information ---------- 11
Checking the remote computer's status ---------- 12
Viewing the remote computer's Resource information ---------- 12
Watching the remote computer's screen ---------- 14
Talking with the remote computer ---------- 16
Controlling the remote computer ---------- 16
Wake on LAN ---------- 17

4. QDM user's guide ---------- 19
How to start the functions of QDM® ---------- 19
Viewing basic resource information ---------- 20
Checking the Status of the Computer ---------- 27
Configure the thresholds of the temperature ---------- 30
Configure the thresholds of the fan ---------- 30
Configure the thresholds of the voltage ---------- 31
Configuring administrator's Privilege ---------- 32

CONTENTS

5. DMIVIEW ---------- 33
About DMIVIEW ---------- 33
Starting and exiting DMIVIEW ---------- 33
Interface of DMIVIEW ---------- 35
How to use DMIVIEW ---------- 35

Abbreviations used in this manual

AMA	Administrator Management Application
DMI	Desktop Management Interface
LAN	Local Area Network
QDI	Quantum Designs Inc.
QDM	QDI Desktop Manager
SMBIOS	System Management BIOS

If you need any further information, please visit our web-site: “www.qdigrp.com”.

1 Overview

1.1 What is QDI ManageEasy ?

It is well known that guaranteeing the computer's security and reliability is essential. Especially today, effectively managing and monitoring the computer's hardware is even more important; because processing and exchanging critical data through computer and network are happening everyday.

Moving with the computer's development, the system of the computer will become more and more complex; at the same time, the control of the computer's hardware will be strengthened. Today, it is possible to monitor and manage your complex hardware from Windows 9X and Windows NT. QDI ManageEasy is a system tool, like a bridge between the complex hardware and OS, used to access hardware status and to execute some control functions. It supports stronger functions for Windows 9X and Windows NT. These functions enables you to view more than one hundred of the basic information about their computer and monitor some key reference data about computer health in real time. QDI ManageEasy also helps you to use remote access and control computers in your local area network. With QDI ManageEasy, you can improve your management level.

1.2 QDI ManageEasy Applications

Four components are introduced in this section

1. Administrator of Management Application (AMA), provides the management tools for the administrator. Through AMA, the administrator can implement remote monitoring, managing and wake the remote computer up on LAN. With AMA, you can detect or view system information and PC health status for any computer where QDI ManageEasy has been installed. If you have the privilege, special operations can be done on the remote computer, such as watching screen, viewing OS resource , shutdown or restart remote computers etc.

   AMA needs the Microsoft network environment, it supports Microsoft network and runs under Windows 9X and Windows NT platform. QDI ManageEasy supports remote monitoring and managing. It has two

features. One is for the local user, another is for the administrator. The local feature must be installed in each computer that is to be monitored. The administrator feature can be installed in the computer used by administrators, through which the administrator can implement viewing, monitoring and controlling. In fact, the functions of the administrator feature is enhanced remote accessing, except for functions of the local feature.

2. QDI Desktop Manager(QDM), a local application in ManageEasy, can help you view important information about local systems, monitor PC health, configure what and how to monitor, also set privileges for AMA .
3. DMI BIOS Viewer, is a local application also. It supports the latest DMI version--version 2.1, and is compatible with the popular version--DMI version 2.0. Here, DMI means Desktop Management Interface, which is a standard protocol, used to manage computers in an enterprise. DMI BIOS is provided by the Motherboard manufacturer.
4. Set_BIOS, is a application which supports the modification of your DMI BIOS. Usually it is used by vendors or Computer System Integrators.

1.3 Network support

QDI ManageEasy for network that runs under Microsoft network, currently supports either TCP/IP protocol or NetBIOS protocol. We strongly recommend TCP/IP.

1.4 Troubleshooting for network

AMA implements remote operating through network. If some complications occurred while using AMA, first confirm whether your network is running properly; Then examine whether QDM has been installed in the remote computer. If it has not, these problems may occur.

If TCP/IP protocol has not been installed in your network, but some other NetBIOS bridges, such as IPX, Dial-up, have been installed in your network, the trouble may be encountered. For this reason, the TCP/IP protocol is strongly recommended.

If you can not use the TCP/IP protocol for some reason, and encounter the above trouble, open control panel in the Windows, click network icon, then delete and reinstall your network. Please confirm the first configuration is NetBEUI protocol.

In LAN, if the old version of QDI ManageEasy is installed on some computers, we strongly recommend you replace it with new version.

2 Installation of QDI ManageEasy®

2.1 System requirements

- Windows 9X or Windows NT.
- QDI Motherboard bundled with the QDI ManageEasy software CD.
- 16 MB of RAM for Windows 9X and for Windows NT.
- 20 MB of available hard drive space.

2.2 Running the setup.exe program

This software can be installed under Windows 9X or Windows NT. When you insert the CD which contains the QDI ManageEasy 1.2 software or run the setup.exe program under the installed CD, the setup program will run, its screen is as shown below:

In this screen, you can select *Express install* or *Custom install .* To select *Express install,* first check the *Express* button, and then press the *Install* button; To select *Custom Install,* first check the *Custom* button, and then press the Install button. For the fastest installation choose the *Express install* , accept the default monitor value of voltages,

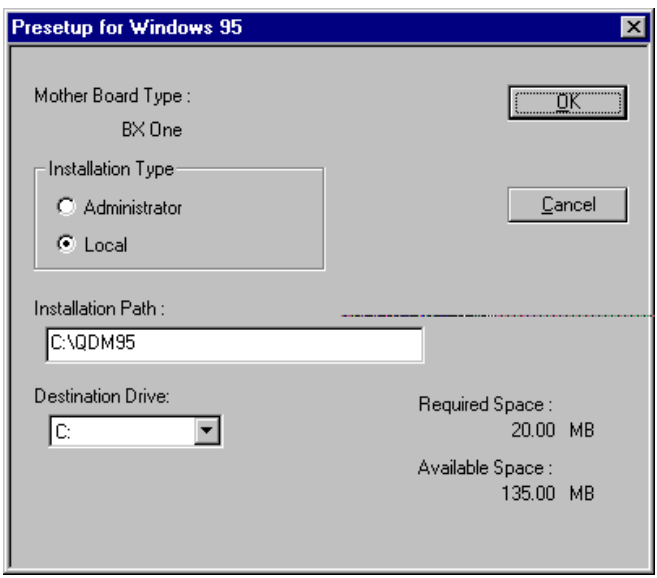
fans and temperatures, the only thing you have to do is to assign the *install* path on the hard disk. If you don't want to install the default component, you may select *Custom install.* In *Custom Install,* you can change the monitor value of voltages, fans and temperatures, as you like.

2.3 The installation of the file to hard disk

When you press the Install button, a dialog box will pop up. In this dialog box you can:

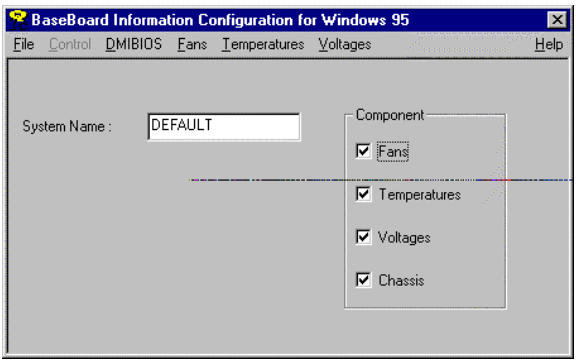
Selecting the installation type --- *Local* or *Administrator.* The *Local* type installation will install the necessary component to monitor your own machine information. The *Administrator* type installation will install the component to monitor the machine information of your workstation, where QDM has been installed.

Assigning the install path--- In this path, the installation file will be copied, for later use. The Dialog box is as shown below:

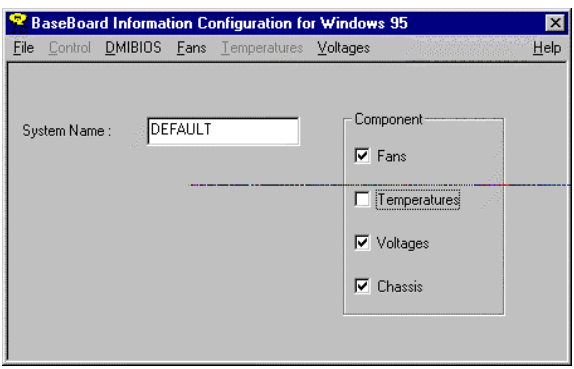


2.4 Configuring QDM for your system

If you have selected Custom Install, the Information Configuration dialog box will pop up. In this dialog box you can configure or modify the default information, as you need. The dialog box is as shown below:

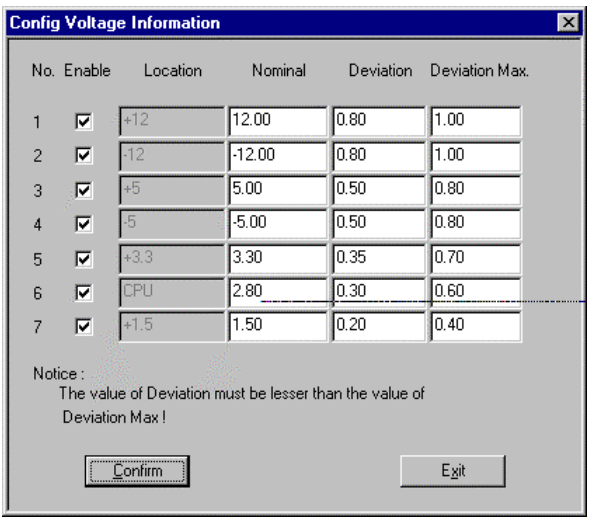


In this dialog box items monitored can be enabled or disabled. For example, in the following dialog box we disable Temperatures, the menu item Temperatures has been grayed, the QDM will not monitor the information of Temperatures.

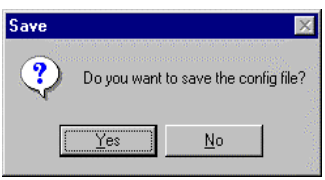


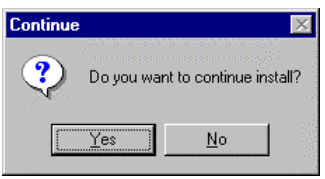
From the menu, information can be modified. For example, you select Voltages, and the Configure Voltages Information dialog box will pop up, in

this dialog box you can enable or disable some voltage, change the nominal value of the voltage, and change the deviation of the voltage.



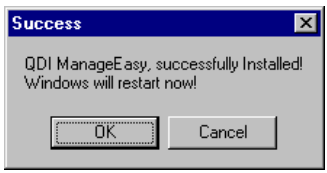
After you have modified the information, you can quit this program, the program will ask if you want to save the changes and if you want to continue. As shown below.





2.5 Complete Setup

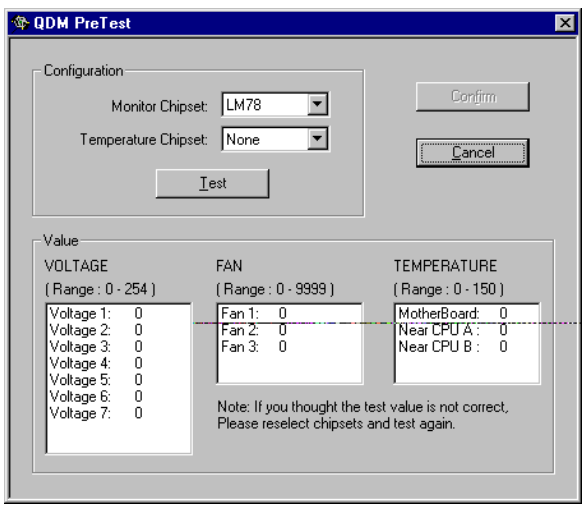
After you have configured all the Information, and your answer is Yes when asked by the program whether or not you want to continue installation, then the setup application will be completed. The following dialog box will be shown.



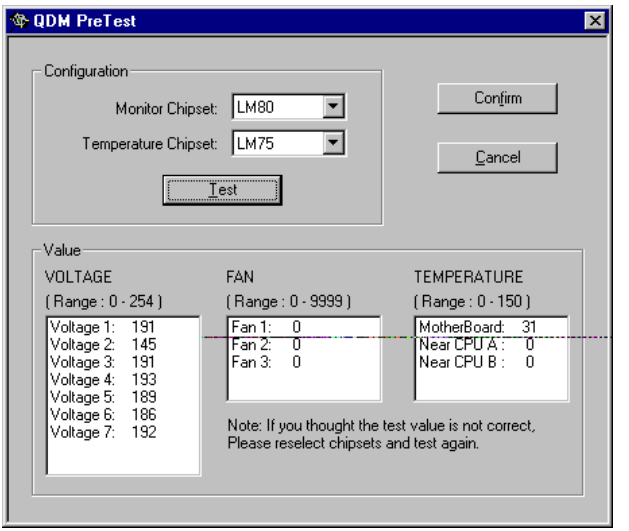
The QDM will be effected after you have restarted your computer, if you want to start QDM immediately click *OK*, or not to restart your computer click *Cancel*.

2.6 Additional Support for other Motherboards

If you installed QDM in the computer, and it is not a QDI motherboard, the setup program may identify the information of your computer incorrectly. When the setup program finds the computer does not have a QDI motherboard, a dialog box will pop up:



You can configure the chip, which is used by your motherboard. Select the module of monitor chip (for example: LM80 and MAX1617), then click *TEST*, the setup program will read the monitor value of your computer depending on the your selection, and display the following:



After testing your motherboard, click *Confirm* to continue the installation process, or click *cancel* to abort installation. If you have continued to install QDM the setup program will use these test values as the nominal value, the QDM monitor will send warning and critical messages based on these values.

1. The QDM can not identify all the module chips on motherboard, the test values are only a reference.
2. If you are not certain about your hardware, please consult with your computer distributor.

3 AMA user's guide

AMA provides a general method for the administrator to manage the computers in LAN. AMA helps the administrator to examine the computers. If the administrator found that some problems occurred in the remote computer, he can TALK with the remote computer, or restart the remote computer. If the administrator wants to update the software or perform maintenance after work, he can wake the remote computer up by using the wake on LAN function. With AMA, the administrator can also configure notifications of the remote computer.

In general, AMA has some special features to help the administrator to manage the computers in LAN. These features include watching the remote computer's screen, waking on LAN, viewing the remote computer's health status, talking with the remote computer, controlling the remote computer and watching the remote computer's OS resources. We will explain these functions later.

The main introduction of AMA:

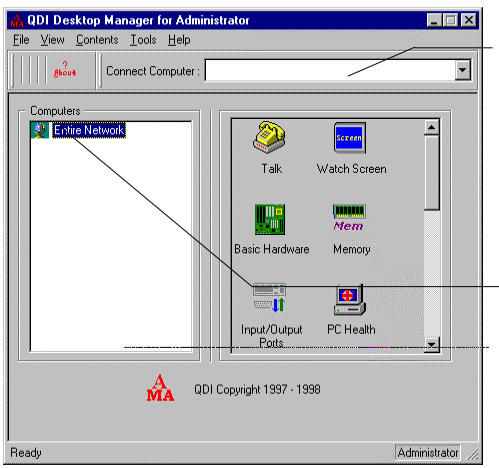
- How to start AMA
- How to Connect a computer where QDM has been installed
- Viewing the remote computer's DMI BIOS information
- Checking the remote computer's status
- Watching the remote computer's screen
- Talking with the user whose computer was connected
- Controlling the remote computer
- Viewing the remote computer's resources information
- Wakes remote computer up on LAN

3.1 How to Start AMA

Select QDM Administrator from the Start QDI ManageEasy menu; or in QDI ManageEasy Group, double click AMA's icon.

3.2 How to Connect a computer installed in QDI ManageEasy

There are two methods used to connect a computer where QDM has been installed. One is to input the computer name in the Connect Computer row , then press the < Enter > key, the other is to double click the Entire Network to search the computers in the LAN , where QDM has been installed. If successful, a computer list will be displayed, then you can select a computer and double click it.

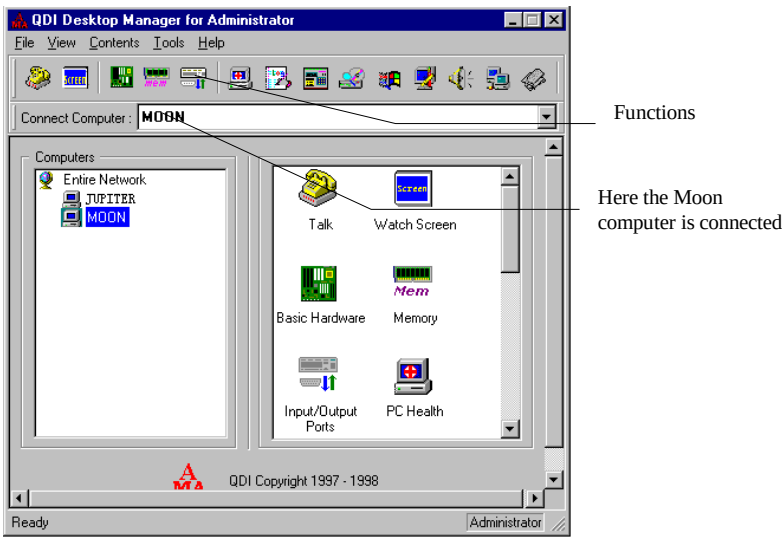


Input computer name here, then strike <Enter> key
Note: The Connect Computer row is removable.

Double click mouse's left button, when the computers are displayed, select one and double click it.

After locating computers in LAN, the function of wake on LAN is enabled. This function is introduced in detail later.

After the connection, available functions of AMA will be displayed, and can be used (See the following figure).



After the connection, the following operations can be performed.

- Viewing the remote computer's basic resource information
- Checking the computer's status
- Viewing the remote computer's resource information
- Watching the remote computer's screen
- Talking with the remote computer
- Controlling the remote computer's shutdown or restart function.
- Wake on LAN

3.3. Viewing the remote computer's DMI BIOS information

See Chapter 4 Viewing DMI BIOS Information, the difference is that the information is the remote computer 's, not the local machine.

3.4. Checking remote computer's status

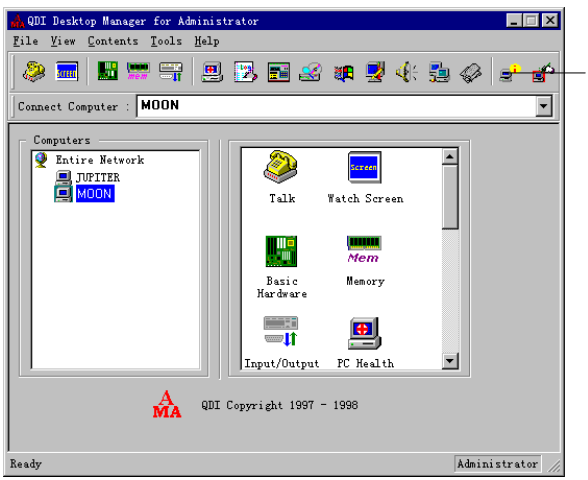
See Chapter 4 Checking the Status of the Computer, the difference is that the these contents are the remote computer's , not the local machine.

3.5. Viewing remote computers' Resource information

In order to view the remote computer's resources, click Information Icon or click Tools | Information, a dialog box will be displayed. If the information is empty, it means that this privilege has not been assigned to you by the remote user, please contact the user. On the other hand, if the privilege has been assigned to you all of the remote computer's Resource information will be displayed in the dialog box. In this dialog box, the following items can be viewed:

- System Summary
- System Files
- Device

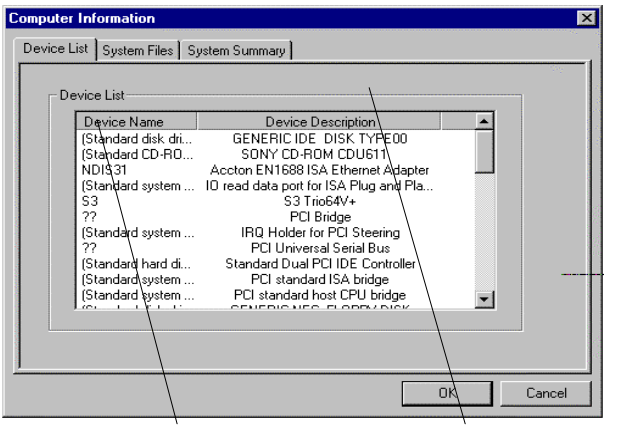
The five items above will be explained in detail



To view Resource information click here

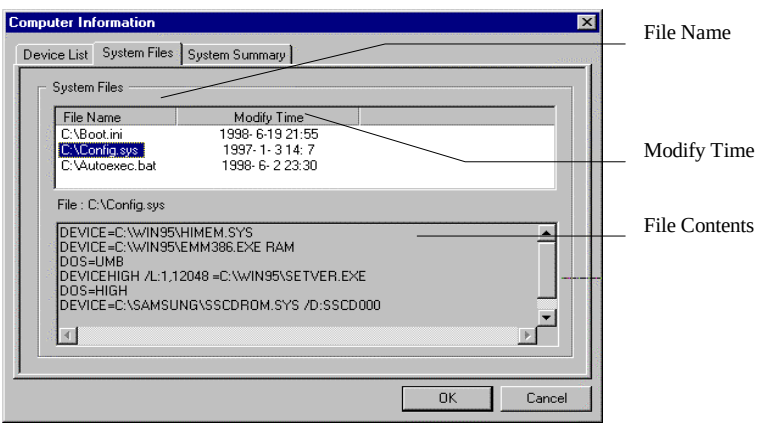
Device list

Device list displays all the devices of the remote computer's and indicates the name and description of the device.



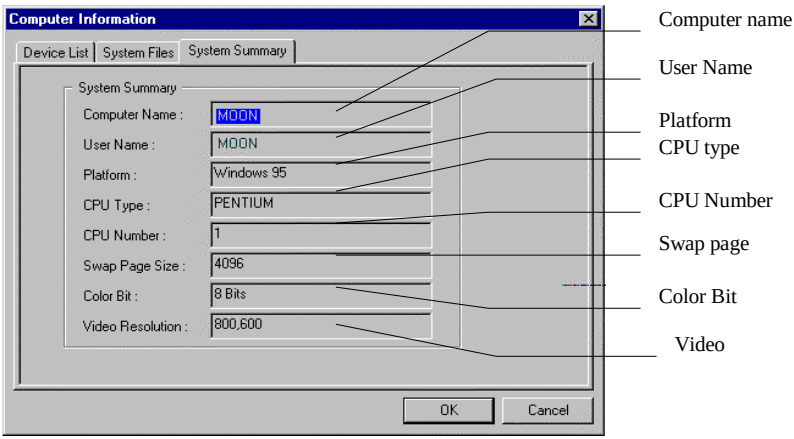
System Files

The following figure is the System File Dialog. System File includes boot.ini , autoexec.bat and config.sys three files. Also, it indicates the Modify Time of each file.



System Summary

The following figure is the System Summary Dialog. This dialog indicates the computer name , the user name, the platform, the CPU type etc. , of the connected computer.

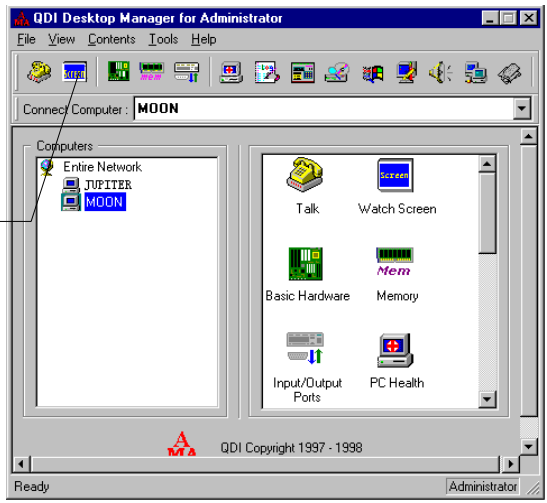


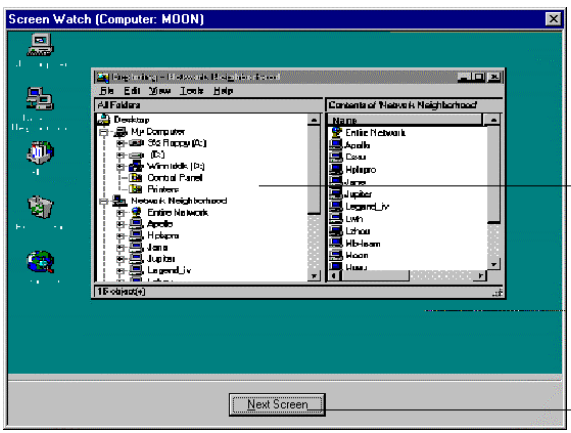
3.6.Watching the remote computer' screen

If you want to watch the screen of the connected computer, click Watch Screen icon, or click Tools Watch Screen. If the connected computer assigns this privilege to you, you may receive its screen, otherwise an error message will be given to you, if you do not have this privilege, we recommend you ask the remote user to give you this privilege. The Next Screen button can be pressed to get a fresh of the screen.

In this instance, we connected the Moon computer, after clicking the Watch Screen Icon, the Moon screen is displayed .

Click here to watch remote computer





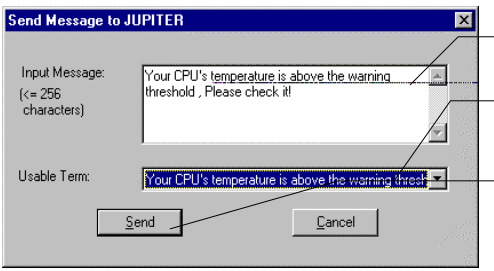
Computer Moon screen is displayed here !

Press here to refresh

3.7.Talking with the remote computer

Using QDI ManageEasy, if the administrator found the computer has a problem, he can tell the remote computer how to tackle the problem. To start this function click Talk icon or click Tools | talk., a dialog box used to talk is displayed.

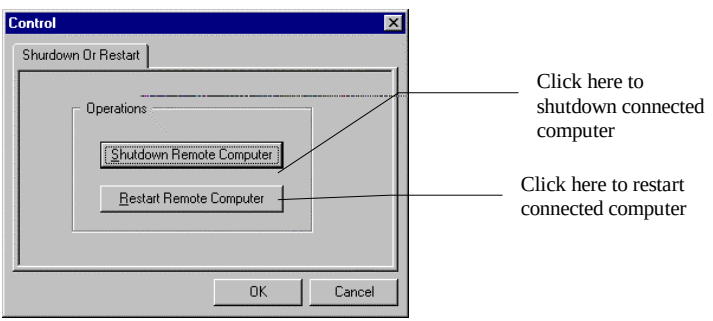
If the Send Message to another computer Dialog is displayed, you can select general methods provided by the QDI ManageEasy to handle the problem. You can input your method , and click Send button to send this message to the user.



3.8.Controlling the remote computer

If the administrator found the connected computer has some problem, for example, the temperature of the connected computer's CPU's is too high, but the connected computer's host is absent. The administrator can shutdown the connected computer in order to cool the remote computer's CPU. If the administrator has been assigned the restart or shutdown privilege by the connected computer's host.

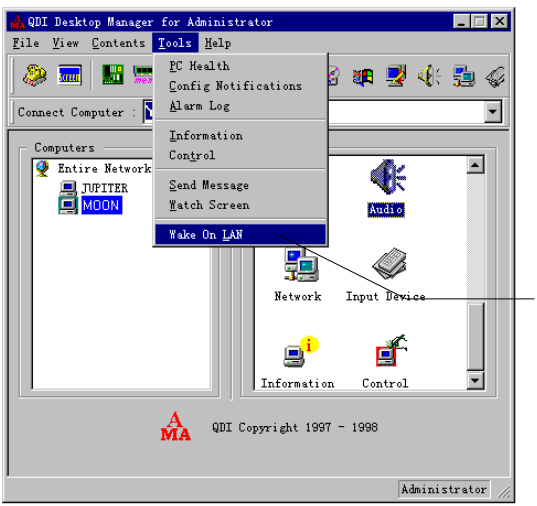
To use this function, click Control Icon or click Tools | Control, a dialog box will be displayed. If you have the privilege, the button is enabled, otherwise it is gray.



3.9.Wake on LAN

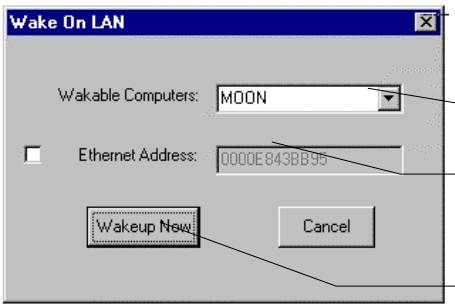
When the administrator want to copy files or install new software to remote computer, but the remote computer is off, The administrator can first wake the remote computer up through LAN.

To use this function, click Tools | Wake on LAN, a dialog box will be displayed. You can choice the wakeable computer listed in the text list. If you know the Ethernet address of the remote computer's network adapter, you can check the Ethernet address button, putting the address in yourself. Now push the Wakeup Now button, you can wake the remote computer up.



In order to support this function, the hardware of the remote computer should match following condition:

1. The network adapter should support the technology of Wake On LAN.
2. The main board of the computer should support the technology.
3. The power supply must be an ATX type which could supply standby power after power off



Remote computer to be woken

The Ethernet address of the remote computer's network adapter.

Press here to wake the computer in LAN

4 QDM user's guide

QDM is a management tool. It helps you to manage your computer. These management include viewing DMI Bios information and checking the status of the computer. If you want the administrator to help you manage your computer system, you can set the privilege for him. When your computer's problem is noted by him, he will help you to handle it, or indicate some methods to avoid the problem.

QDM provides two main features to you, one is viewing DMI BIOS information, and the other is checking the status of the computer. The following is the detailed specifications.

- How to start the functions of QDM
- Viewing basic resource main information
- Checking the status of the computer
- Configuring administrator privilege

4.0 How to start the functions of QDM

QDM provides some functions to help you manage your computer. These functions are Basic Hardware, Memory, Input/output Ports, Display adapter, Audio card, Network, Input device, Disk, OS info, PCHealth, Configuration, and Log.

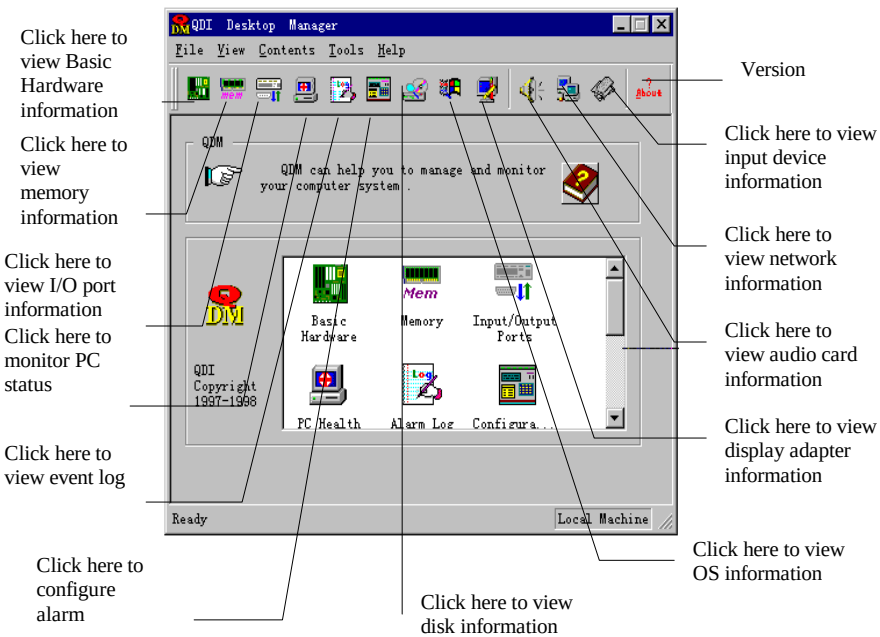
1. Basic Hardware helps you to view some main information of the Base board and the Processor.
2. Memory helps you understand some parameters of physical memory.
3. Input/output Ports helps you view all the ports of your computer.
4. Display adapter helps you view your computer's driver and device of display card.
5. Audio card helps you view your computer's driver and device of Audio card.
6. Disk helps you view all the logical driver of your computer and you can configure the threshold of your disks.
7. Input/output Ports helps you view all the ports of your compute.

8. Operation's system helps you to view the operations system information and environment variable of your computer
9. Network helps you to view the host and the network card information of your computer
10. Input device helps you to view the mouse and keyboard information of your computer.
11. PCHealth helps in checking your computer's health status,
12. Configuration helps you to configure notifications,
13. Log provides some event that happened recently.

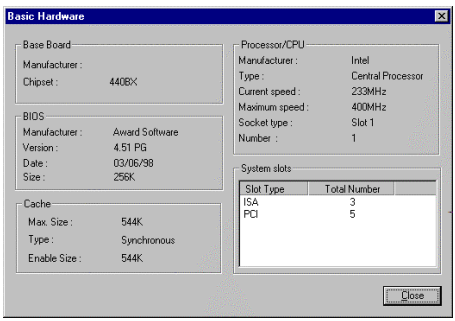
See the following figure on how to start these functions

4.1 Viewing basic resource information

With QDM, you can view the following items of the basic resource information on the mainboard:

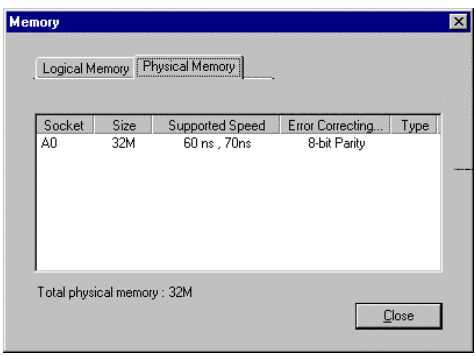


- Basic Hardware: This includes some primary DMI information of the Base Board, the System Slot, the processor and the BIOS.



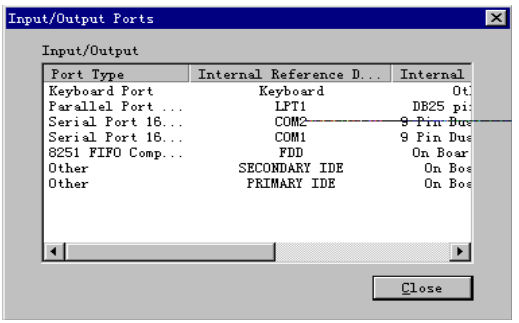
To view this, click Basic Hardware icon or click Contents | Basic Hardware

- Memory: This includes some main parameters of Physical Memory such as Socket, Size, Supported Speed, Error Correction etc.



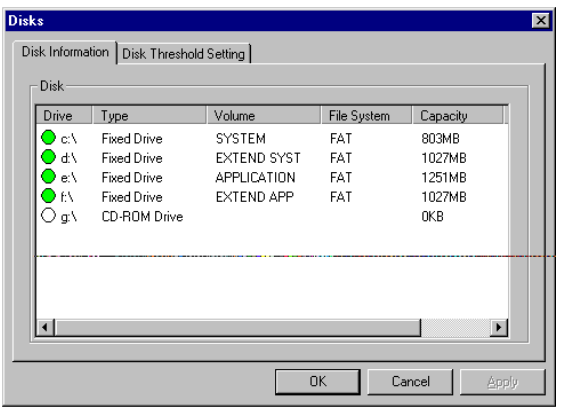
To view this, click the Memory icon or click Contents | Memory

- Input /output Ports : This lists all ports in the computer, including Keyboard Ports , Serial Ports , USB, etc. Also, some important information of these ports are included.



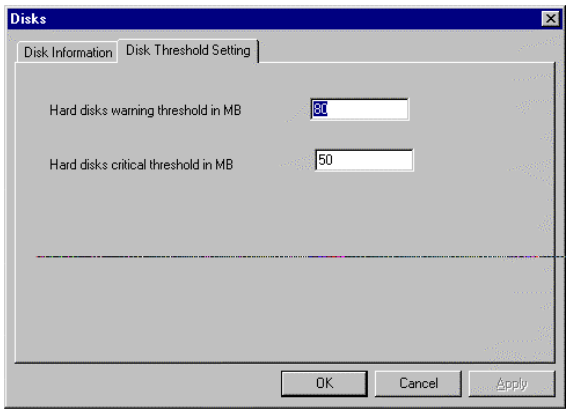
To view this, click Input /output Ports icon or click Contents | Input /output Ports

- Disk: This includes disk parameters such as type, volume capacity .etc. Here you can configure the threshold of the disk.



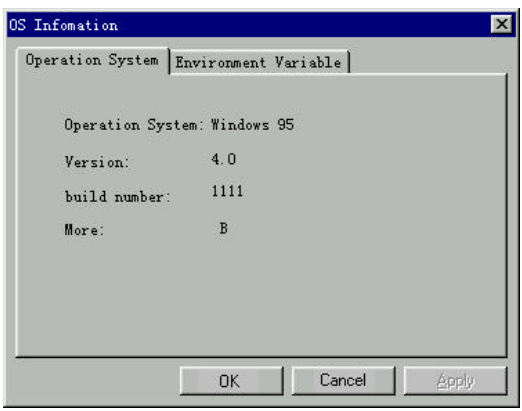
- To start the configuration, click the Disk Threshold Setting tab. In this dialog , you can get Warning thresholds and Critical Thresholds. You can change the Warning and Critical thresholds of the Disk, then click the OK button to confirm the changes, or click the Cancel button to reserved the previous value.

The warning value must be no less than the critical value.

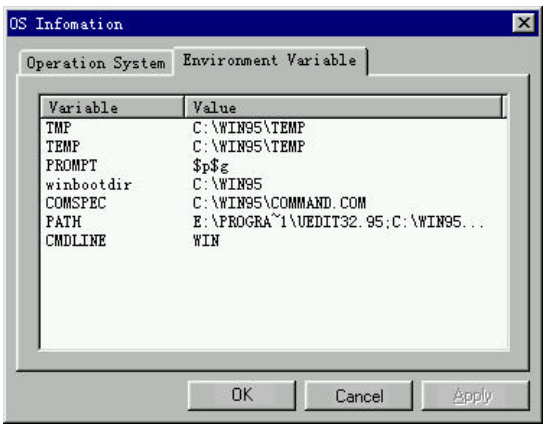


To view this, click Disk icon or click Contents | Disks Information.

- OS Info: This includes some main parameters of Operation System such as OS version OS type etc.

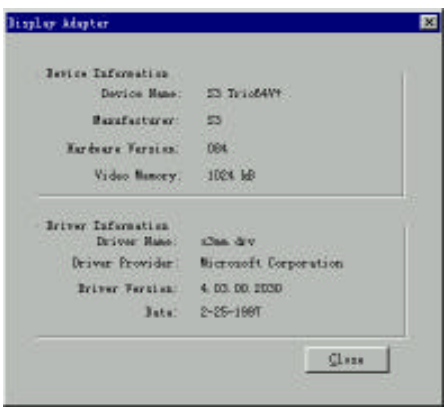


If the Environment Variable tab is clicked dialog as following figure will appear, it tells you the system variable of the computer.



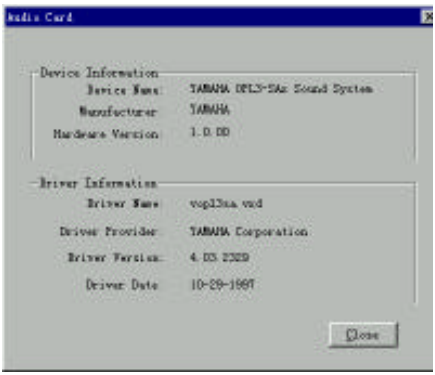
To view this, click Operation System icon or click Contents | Operation System.

- Video: This includes some main parameters of display adapter Device Name,Manufacture,Driver Name etc.



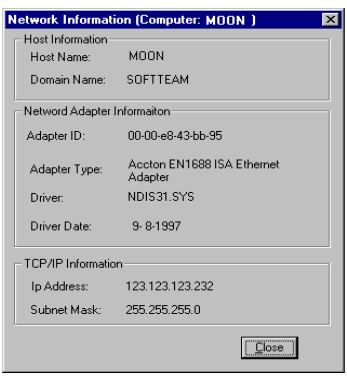
To view this, click Video icon or click Contents | Video.

- Audio: This includes some main parameters of Audio card including Device Name,Manufacture,Driver Name etc.



To view this, click Audio icon or click Contents | Audio.

- Network: This includes some main parameters of Network Adapter like Adapter ID,Adapter type,Driver etc. And it also including host information such as host name,address,subnet mask etc.

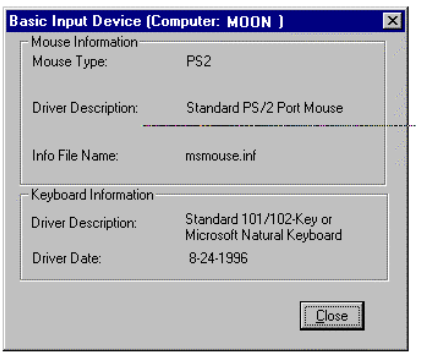


To view this, click Network icon or click Contents | Network.

If you have not installed TCP/IP on your computer, you will not see the adapter information in windows NT

- Input Device: This includes some main parameters of Basic Input Device information including Mouse info and Keyboard info

To view this, click Input Device icon or click Contents | Input Device.

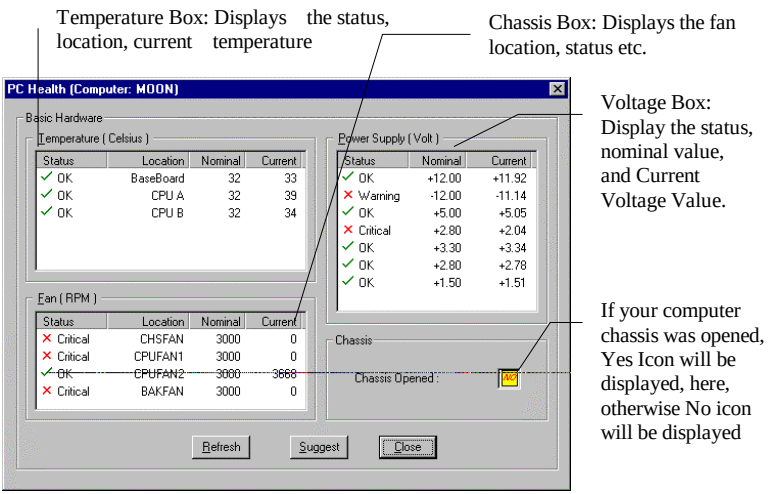


4.2 Checking the status of the computer

In this section, we will introduce the use of PCHealth, Log, Configure Notifications and Suggestion. Introductions include how to start and use these functions.

Viewing PCHealth

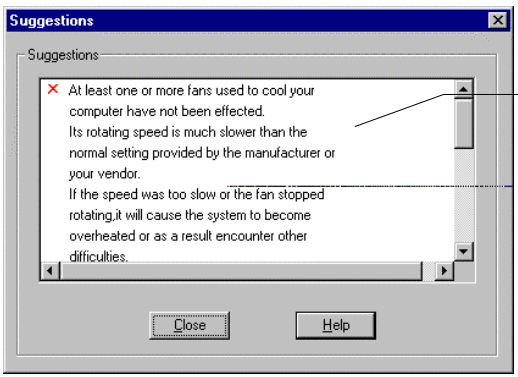
To view the PC health status , you can click PCHealth icon, or click Tools | PCHealth. Please refer to how to start functions of QDM.



When this has been done, the healthy status will appear. This dialog box displays four Boxes , they are Temperature Box, Chassis Box, Voltage Box and Fan Box. Each Box displays some information. In Temperature Box, the Location of the temperature, the Nominal temperature and Current temperature are displayed. In Voltage Box, the Nominal value and the current Value are displayed. In Fan Box, the location is displayed. Besides each Box, the current Status is displayed. If it is running OK , a correct flag is given, otherwise, it means this component may be in trouble. If the chassis is opened by somebody, a Yes Icon will be displayed in the chassis Box, otherwise a No Icon will be displayed. If you want to get some suggestions, click Suggest Button.

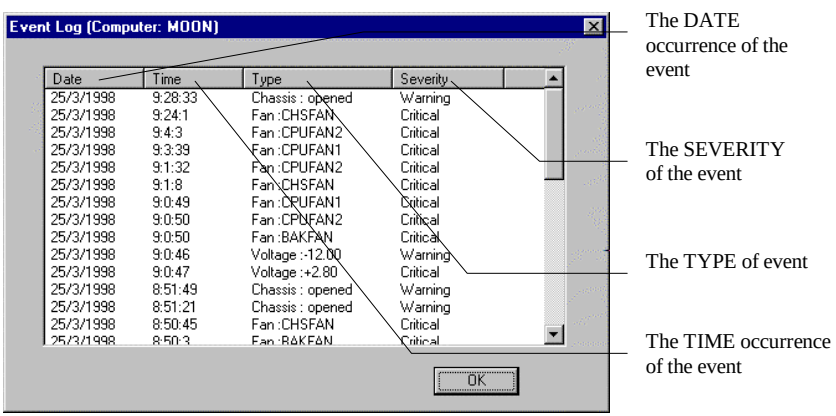
Viewing Suggestions

In the PCHealth Dialog , if the Suggest Buttons is clicked, the following Dialog will be displayed. In this dialog, some methods to deal with the trouble is given.



Viewing Log

To start this function, click the Log icon or click Tools | Log , Please refer to, how to start functions of QDM.

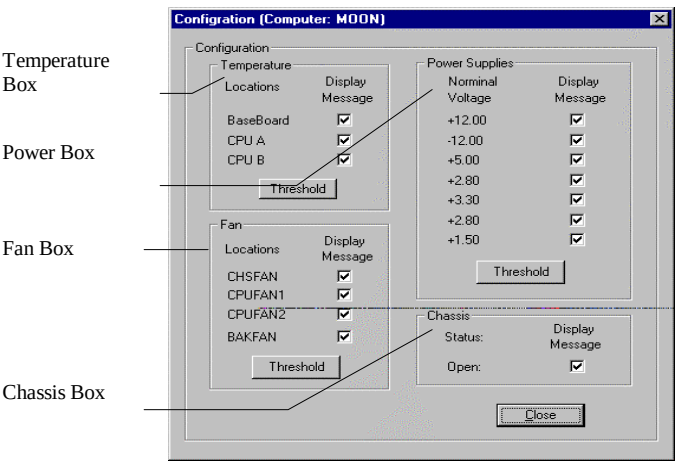


The Log Dialog box will appear , in this dialog box, events that recently happened is displayed. In the event table, you can read the time of the event, the type of event, and comprehend the severity of the event.

Configure notifications

To start this function click configuration icon or click Tools | Configuration . Please refer to, how to start functions of QDM.

The Configuration Dialog Box will be displayed, in this dialog , you can select which event should be notified to the user, and also can change the thresholds of each components. This dialog includes four Configuring Boxes which are the Temperature Box, Chassis Box, Power Box and Fan Box. Each Box has some components , if the component is selected, you may be notified if this component is not running well. There is a Threshold button in each Box. If this button is clicked, you can configure all the threshold of the components in this Box. See the following about how to configure thresholds.



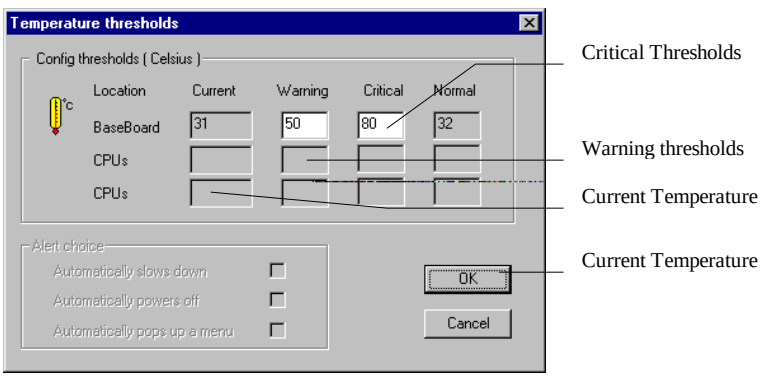
See also :

- Configure the thresholds of the temperature
- Configure the thresholds of the Voltage
- Configure the thresholds of the Fan

Configure the thresholds of the temperature

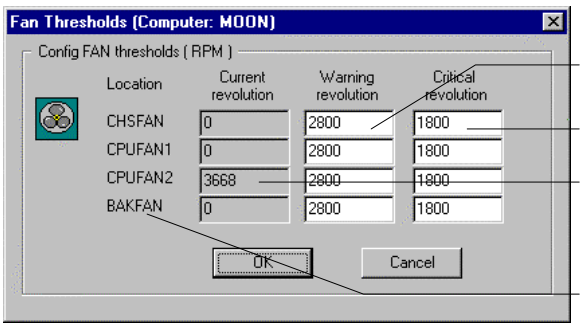
To start the configuration, see configure notifications. In this dialog , you will receive the information of current Temperature, Warning Thresholds and the Critical Thresholds. The temperature's location event is given. Except the current temperature, you can change the Warning Thresholds and Critical Thresholds. When editing is completed, click the OK button to confirm the changes; if you click the Cancel button the previous value is reserved. While changing thresholds please read the following rules:

The Warning Value must not be greater than the Critical Value.



Configure the thresholds of the fan

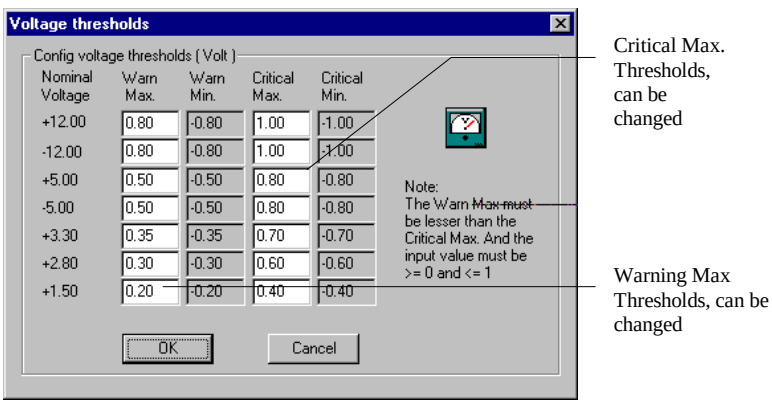
To start the configuration, see configure notifications. In this dialog , you can get the information of the four fans. The information is the Location of the Fan, current revolutions, Warning thresholds and Critical Thresholds. You can change the Warning and Critical thresholds of the fan, then click the OK button to confirm the changes, or click the Cancel button to reserved the previous value. Before you configure the thresholds, please read the following rules.



Note: The Critical Value must not be greater than the Warning Value.

Configure the thresholds of the voltage

To start the configuration, see configure notifications. In this dialog , you can read the nominal value of the voltage, the Warning and Critical Thresholds of the Voltage. You can change the Warn Max and Critical Max thresholds. The Warn Min and Critical Min Thresholds value are given by the QDM system. When changing is completed, click the OK button to confirm these changes, or click the Cancel button to cancel the changes. Before configuration, you must read the following rules.



Note: The Critical Value must be no less than the Warning Value.

4.3 Configuring administrator privilege

To start the Configure Privilege function, click Tools | Privilege, a dialog will pop up with the original configurations. you can change the configuration to give the administrator some privilege. In this dialog, you can view three levels of privileges. They are *Enable administrator view OS resources*, *Enable administrator watch computer Screen* and *Enable administrator shutdown or restart computer*. If the first privilege is accessed to the administrator, the administrator can watch you OS resources. OS resources include the system files, the environment block, the system summary etc. If the second privilege is accessed to the administrator, he can watch your screen! If the last privilege is given, he can restart or shutdown your computer. To configure this, check the corresponding row.

5 DMIVIEW

5.1. About DMIVIEW

Desktop Management Interface (DMI) is a standard protocol for managing computers in an enterprise. It provides all information about the computer system and its components. With DMI, a system administrator can obtain the types, capabilities, operational status, installation date, and other information about the system components. Many of these attributes are known by the Management BIOS (DMBIOS).

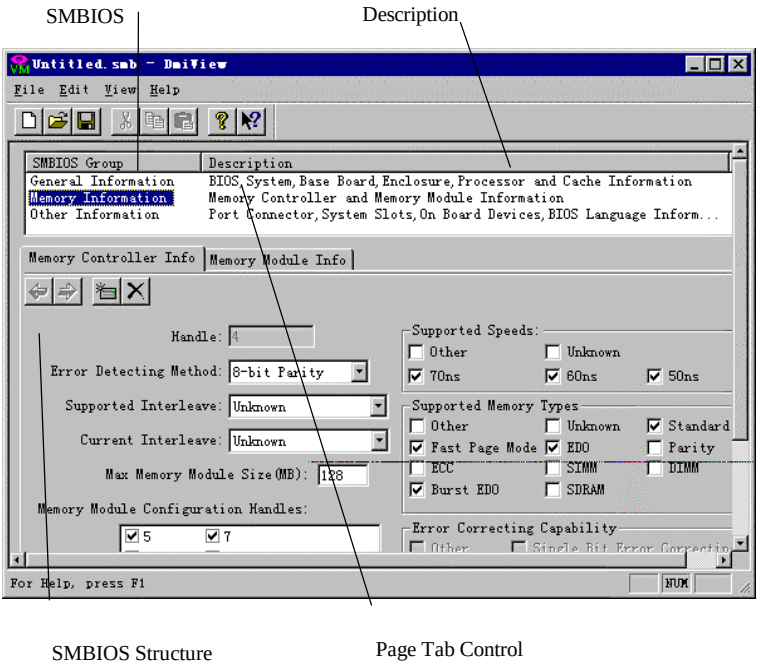
DMIVIEW is a utility of QDM package, supports SMBIOS Spec V2.0/V2.1. Every SMBIOS structure is displayed in a property page. In these pages, you can add or delete SMBIOS structure, edit and save SMBIOS information.

5.2. Starting and exiting DMIVIEW

To start DMIVIEW, select DMI Bios manager from the QDI Desktop Manager group in the startup menu. To exit DMVIEW, select Exit item from the File menu. Also, you can close DMIVIEW from the System menu or the Control menu.

5.3 Interface of DMIVIEW

The main interface of DMIVIEW is as shown below:



SMBIOS group

SMBIOS structures are divided into three groups: general information, memory information and other information. You can select the group by clicking the corresponding item.

Description

Gives more detail information about each SMBIOS Group.

Page Tab Control

Click the Tab Control, DMIVIEW will change to the corresponding SMBIOS structure page.

SMBIOS Structure Page

View and edit the current SMBIOS Structure information.

SMBIOS Page Toolbar

Include four buttons:

Button	Do what
Previous	go to previous structure
Next	go to next structure
add/create	Add/Create a structure
Delete	Delete current structure

BIOS information can not be modified because it has only one structure, therefore, there is no SMBIOS Page Toolbar in the BIOS information page.

5.4 How to use DMIVIEW

SMBIOS information is loaded into a new document named untitled when DMIVIEW is started.

Load SMBIOS. Load new information from SMBIOS. DMIVIEW will display SMBIOS structures for you, they can be viewed and edited.

Open. Open an smb-file that you saved earlier.

Select SMBIOS Group. Click SMBIOS Group Item, the pages shown below will change to the corresponding sheet.

Select SMBIOS Structure. Click Page Tab Control to select the SMBIOS Structure which you are interested in.

Edit SMBIOS Structure. In the SMBIOS Structure page, SMBIOS structure information is shown as a dialog. To edit this structure, you can type your string/number in the edit box or select an item in the list box. You can also create/add, delete structure, and move to the previous or the next structure by clicking the corresponding SMBIOS page Toolbar.

Save/Save as. Save all SMBIOS structures of current documents into a smb-file. The document may be generated by loading new information from SMBIOS or opening an exist smb-file.

Exit DMIVIEW. Click Exit\File or press the < Alt > + < F4 > . key

SET_BIOS

1.About set_bios.exe

Set_bios.exe is a tool provided by QDM software package, it is used to update SMBIOS. Set_bios must run with DMIVIEW, because both smb-file and smbios.hdl used by set_bios is provided by DMIVIEW. It is recommended that only specialist and suppliers use set_bios.

*File smbios.hdl is generated automatically by DMIVIEW. It saves the type and handle of each SMBIOS structure.

2. Using set_bios

Set_bios can only run under real-mode DOS. Before running set_bios, you must run DMIVIEW under Window NT/Windows 9X. DMIVIEW will get SMBIOS information and save these structure types handled into the file smbios.hdl. You can edit these SMBIOS structures as you want, and save the result into a smb-file. Then, restart your computer into real-mode DOS, go to the path where set_bios exists (the directory where QDM is installed) , type as below:

set_bios < smb-file > < Enter >

According to the file smbios.hdl, set_bios will delete old SMBIOS structures in SMBIOS at first, then add new SMBIOS structures saved in smb-file into SMBIOS.

It is strongly recommended that only specialist and suppliers use set_bios. In the process of updating SMBIOS, do not shutdown your computer.

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