

Tisio 96 Bios Update procedure

This procedure describes how to update the Tisio 96 BIOS.

Requirements

The following is required for the upgrade.

1. One ThinPATH Systems Tisio USB RecoveryOS Boot Stick.
2. One Tisio 96 device.

Creating Tisio USB RecoveryOS Boot Stick

1. Download Tisio USB boot stick files and the BIOS update files from the following location.

<https://tp-sys.com/updates/tisio/Tisio-usb-stick-1.6.5.960.zip>

The file to download:

- Tisio-usb-stick-1.6.5.960.zip
2. Download the “HP USB Disk Storage Tool”. Search Google for “HP USB Disk Storage Tool”, download and install it on a PC. Once downloaded installed run the program.
 3. From the “HP USB Disk Storage Tool UI” Select create DOS boot startup disk and point to the files in the Tisio-usb-stick-1.6.3.zip image.
 4. Once made copy all files over to the USB stick that are in the Tisio-usb-stick-1.6.5.960.zip image.

Tisio 96 BIOS Installation

The procedure will use the Tisio USB RecoveryOS Boot Stick to boot to DOS prompt enabling the BIOS to be updated.

Configure Tisio PC to boot from ThinPATH Systems Tisio USB RecoveryOS Stick.

- 1) Plug the Tisio USB RecoveryOS Boot Stick to the front of the Tisio 96 device.
- 2) Turn Tisio device on and Press the “Delete” key when the first PC BIOS screen is displayed.
- 3) When the BIOS configuration screen is displayed, you may be required to enter a password, if so enter “diag” and press Enter. See Note below before continuing. Next skip to step 6.

Note: On some devices shipped the User Password in the BIOS was set in place of the Supervisor Password. On these Tisio devices, after entering the password you still will not be able to change some values. To correct this you will need to reset the User Password to nothing. Perform steps 4 and 5 to clear this password.

- 4) Select “Set User Password”. Press enter when prompted for a new password, just press Enter and leave the field blank. Press Enter again to unset user password.
- 5) Select “Save & Exit Setup” and the device will reboot. On reboot press the “Delete” key to enter the BIOS configuration screen.
- 6) Select Advanced BIOS Features from the BIOS Screen and press Enter.
- 7) Select “Hard Disk Boot Priority” and press Enter.
- 8) Press the + or – keys on the keypad to change the priority of the Hard Disk Boot Priority. The + key moves the item up one place in the list. Change the order as shown below.
 1. USB-HDD : KingstonDataTraveler 2 or what ever your USB device is.
 2. Ch0 M. : 128 MB ATA Flash Drive
 3. Bootable Add-in Cards
- 9) Press F10 to Save and Exit, next press Enter to save and reboot. Next go to the next section on “Coping the RecoveryOS and Tisio operating system to the Flash memory”.

Updating Tisio 96 BIOS

- 1) On boot of the Tisio 96 device with the USB RecoveryOS Stick connected to the front of the Tisio 96 USB port, the Menu below will be displayed, if not follow the steps under **Configure Tisio PC to boot from ThinPATH Systems Tisio USB RecoveryOS Stick** above.

1. Partitioning...
 2. Format and Loading Operating System
 3. Recovery System (Update Only)
 4. DOS command prompt.
- Select [1,2,3,4]

- 2) Press 4 and to get to DOS prompt.
- 3) Next enter the command:

Flash897 C7V7.F9 /a /d /-g /r

- 4) Wait for the Flash sequence to complete the Tisio 96 will automatically reboot.

Warning: During Flashing of the BIOS do not turn power off.

Configure Tisio 96 Bios settings

After the Tisio 96 BIOS has been re-flashed, previous BIOS settings are reset. These settings are required to support the Tisio 96 Operating Systems. After the device reboots after being flashed, press the DEL key to get to the BIOS screen. The following settings are required:

- 1) Select **Advanced Chipset Features > AGB &P2P Bridge Control** and set **VGA Share Memory Size** to **16**. This will increase the amount of memory used by the Operating Systems.
- 2) Select **Power Management Setup > IRQ/Event Activity Detect > PowerOn by PCI Card** and set to **Enabled**. This will enable Wake-on-Lan. This enables the device to be turned on by TDM when in an off state.
- 3) If running the Tisio CE operating system, you will also need these settings so PS2 and USB devices work correctly. If running Linux operating system or XPe, this step is not required.

Select **Pnp/PCI Configurations > Resources Control By >** and change to **Manual**. Next select **IRQ Resources > IRQ-11 assigned to** and change to **Reserved**. Next select **IRQ Resources > IRQ-12 assigned to** and change to **Reserved**.

- 4) Once making all changes save on exit.

Configure Tisio PC BIOS to restrict access.

- 1) Turn Tisio device on and Press the “Delete” key when the first PC BIOS screen is displayed.
- 2) When the BIOS configuration screen is displayed, Select “Set Supervisor Password”.
- 3) Enter the password “diag” twice when prompted. Press enter to set user password.
- 4) Select “Save & Exit Setup” and the device will reboot.