

Upgrading Firmware

Overview

When new firmware updates are available for the EQ7000, the firmware can be installed by using the Offline Manager Option from the main menu in the EQ32 Configuration software. The following section explains how to upgrade the firmware in the EQ7000.

The EQ7000 contains two separate processors that each has their own firmware that needs to be installed separately. The Ethernet protocols are handled by an eZ80 processor while the DH+ protocol is handled by a Z182 processor.

eZ80 Firmware

To install the firmware for the eZ80 processor, press the *Configure* button on the EQ7000 to put the device into its offline operating mode. From the Offline Manager in the EQ7000, switch the processor so that the eZ80 processor is active. The eZ80 Offline Manager is the default menu that will appear when the *Configure* button is pressed.

Once the eZ80 processor's Offline Manager is active, follow the steps below to install new firmware for the EQ7000.

1. Select the *Erase Flash* option to erase the flash used by the eZ80. While the flash is being erased, the *Net Status* led will appear solid yellow. Failing to erase the flash before installing new firmware will result in an error, shown by a flash red *Mod Status* led.
2. After the flash has been erased, select the *Install New Firmware* option to begin installing the new firmware. Once the *Install New Firmware* option is selected the following prompt will be shown.

Start Sending File using the X-modem protocol...

3. Press the *Send Firmware File* button located at the bottom left of the Offline Manager window. A message will appear asking if the *Write New Firmware* option was selected and if the system code has been erased. Click *Yes* to continue.
4. Another message should now appear asking the method to use to transfer the firmware to the eZ80. Select *Yes* to send the file using the X-modem protocol.

5. When the firmware has completed being sent to the EQ7000, the following message will appear if the firmware was installed successfully.

Done
Firmware Successfully Installed

If an error occurs while installing the firmware, the following message will appear.

Error: Burning process encountered a problem

Should this message appear, press the *Configure* button and try to install the firmware again. If the problem persists, contact Equustek Solutions for assistance.

Z182 Firmware

To install the firmware for the Z182 processor, press the *Configure* button on the EQ7000 to put the device into its offline operating mode. From the Offline Manager in the EQ7000, switch the processor so that the Z182 processor is active.

Once the Z182 processor's Offline Manager is active, follow the steps below to install new firmware for the EQ7000.

1. Select the *Write New Firmware* option. After selecting this option, the user will be notified by the following message.

This **WILL** overwrite the EQ7000 firmware!
Enter (Y/N) to proceed

2. Press Y to proceed with the installing new firmware and erase the current system code. The Offline Manager will erase the Flash Memory and then ask for the new firmware file.

ERASING FLASH, PLEASE WAIT...

SEND FIRMWARE TXT FILE NOW...

3. Press the *Send Firmware File* button located at the bottom left of the window. A message box will appear asking if the *Write New Firmware* option was selected prior to pressing the button. Click *yes* to continue. Another message will then appear asking how to transfer the file to the EQ7000. Select *No* to send the firmware file as a text file.
4. After installing the firmware, the following message will appear to alert the user that the firmware has been successfully installed.

A-OK FLASH UPDATED!

If a problem occurs while installing the firmware, the following message will appear.

****UPDATE FAILURE****

If the firmware fails to install, repeat the process mentioned above. If the problem persists, contact Equustek Solutions for assistance.