ezTCP Technical Document

Upgrading Boot&Firmware

Version 1.0

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Contents

1 Overall

I/O Port of CIE-H10 can be monitored and controlled by Modbus/TCP, HTTP and Macro function. Especially, HTTP is the most familiar way for user using WEB browser like internet explorer. Users can make own web pages with the version of firmware from 1.3A and boot from 1.6. To use this, boot and firmware upgrade can be required. We have been offering the special firmware which allows users to upgrade CIE-H10's boot easily, because the upgrade procedure is too hard and complicate in users' site. This document describes in detail the processes.

Fig 1-1 a purpose of this document

2 Upgrade Procedure

2.1 A Flow Chart

For using the new added function, CIE-H10 has to download a new boot (ver. 1.6A) and a firmware (ver. 1.3C). This work is so complicate and you might be a little confused. Referring to below diagram in step by step work, it's not a big deal for anyone.
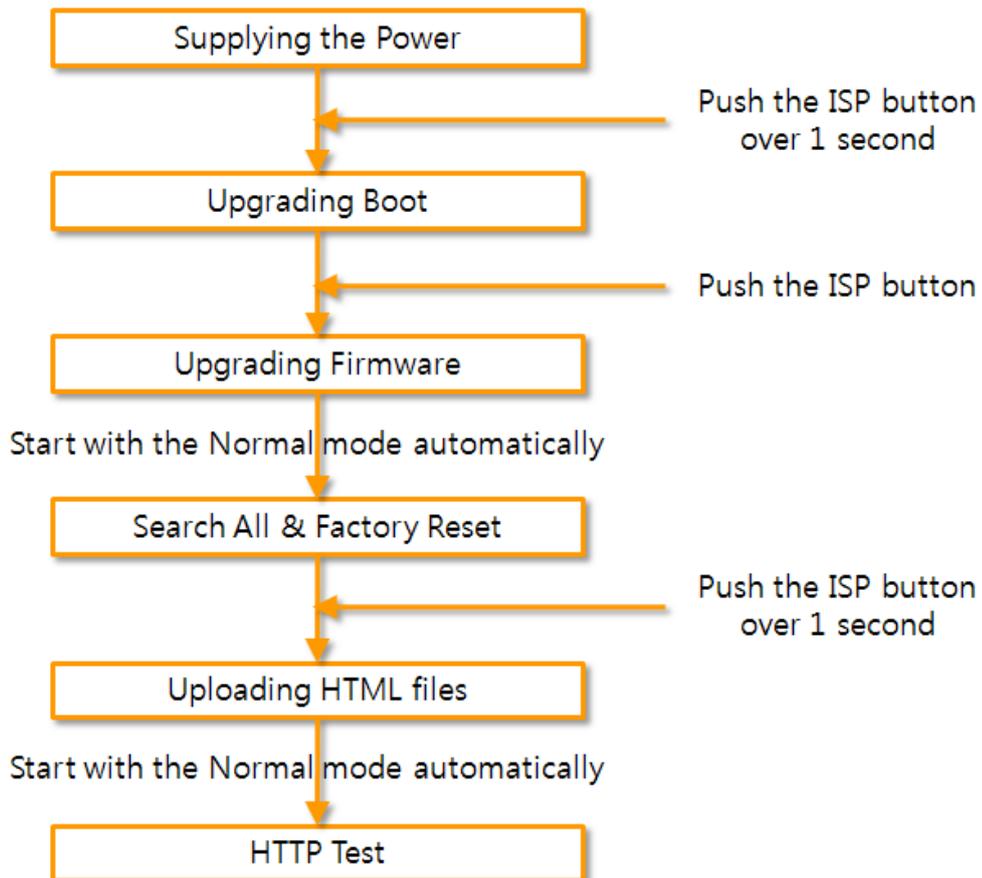
Fig 2-1 Diagram for upgrading boot and firmware

2.1.1 Supplying the Power

Connect CIE-H10 with your PC via Ethernet and supply the power.

2.1.2 Upgrading Boot

● Downloading the Burnboot Firmware

To upgrade the boot, a special firmware has to be downloaded at first. The special firmware is named as burnboot firmware. This is for only upgrade the CIE-H10's boot.

CIE-H10 Latest Firmware
● v1.3E [F/W History]
● H10R13E with BOOT1.7 : For users who need upgrade the boot to 1.7 ①
● H10R13E with Examples : For users who need upgrade the boot to 1.7 and want examples of web pages ②
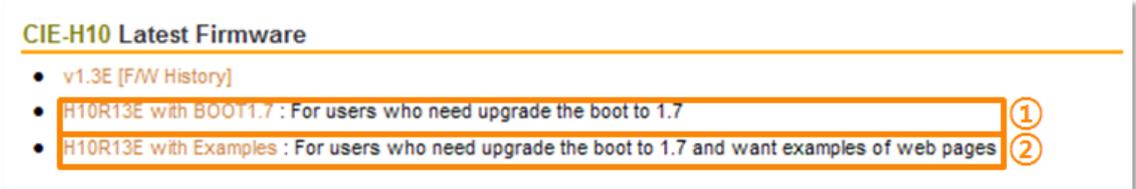
Fig 2-2

① H10R13E with BOOT1.7

This is a compressed file which contains new version of firmware and burn boot firmware.

Table 2-1 contents of compressed file of ①

File Name	Description
H10R13E.BIN	CIE-H10's Firmware file with version 1.3E
BURN_BOOT17_AUTO_FID10.BIN	CIE-H10's burnboot firmware file with version 1.7

② H10R13E with Examples

This is a compressed file which contains firmware, burnboot firmware and sample codes of users homepage.

Table 2-2 contents of compressed file of ②

File Name	Description
H10R13E_WITH_BOOT17	Folder which contains files of Table 2-1
Homepage_examples	Folder which contains files of sample homepages

● Entering ISP mode

Enter ISP mode to download firmware file to CIE-H10.

● Run a TFTP client and ready to send the F/W file

Run a TFTP client program. ezManager is equipped the client program. Click the [Change F/W / HTML] button.
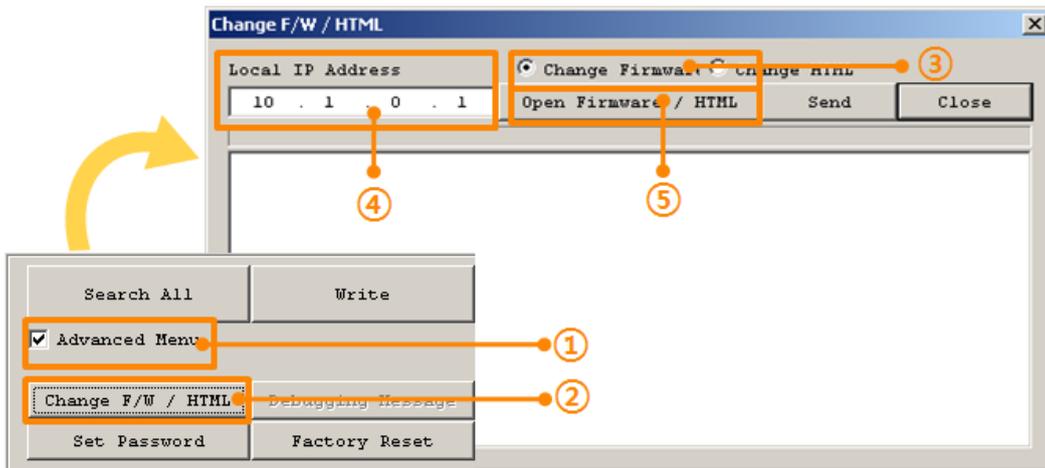
Fig 2-3 running TFTP client

① Check the [Advanced Menu] check box
② Click the [Change F/W / HTML] button to run TFTP client
③ Select the [Change Firmware] radio button
④ Input the IP address of CIE-H10 to the [Local IP Address] text box
⑤ Press the [Open Firmware / HTML] button and choose the firmware file

● Checking firmware file and Sending
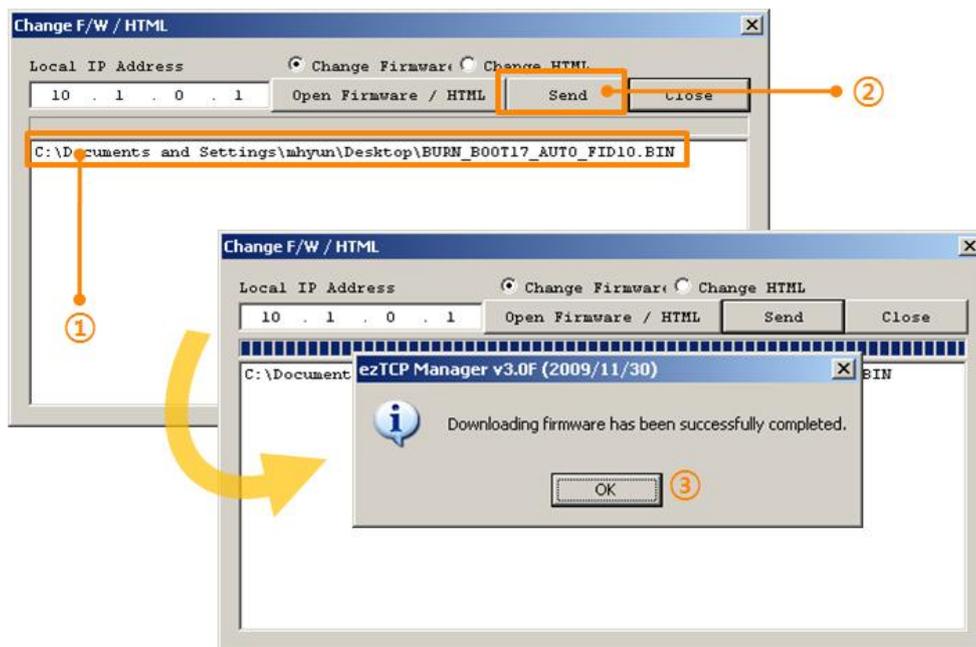
Fig 2-4 sending firmware file

① Check if the name and path of the firmware file are correct
② Click the [Send] button
③ Confirm the completed message

● Jump on the New Boot

When the Burn boot file is downloaded, to move to newly installed boot, just press the ISP switch one time. The LINK and PWR LED are only turned on again.

2.1.3   Upgrading Firmware

Firmware is a type of software for operation of CIE-H10. If there are needs for adding

function or fixing bugs, the firmware is modified and released. We recommend that users keep use the latest released firmware. The procedure of upgrading firmware is the same with uploading burnboot firmware.

2.1.4   Searching and Factory Reset

Run ezManager and press the [Search All] button, then the CIE-H10's MAC address is listed on the result box. Select the product and press [Initialization] button to reset the CIE-H10 to its default status.
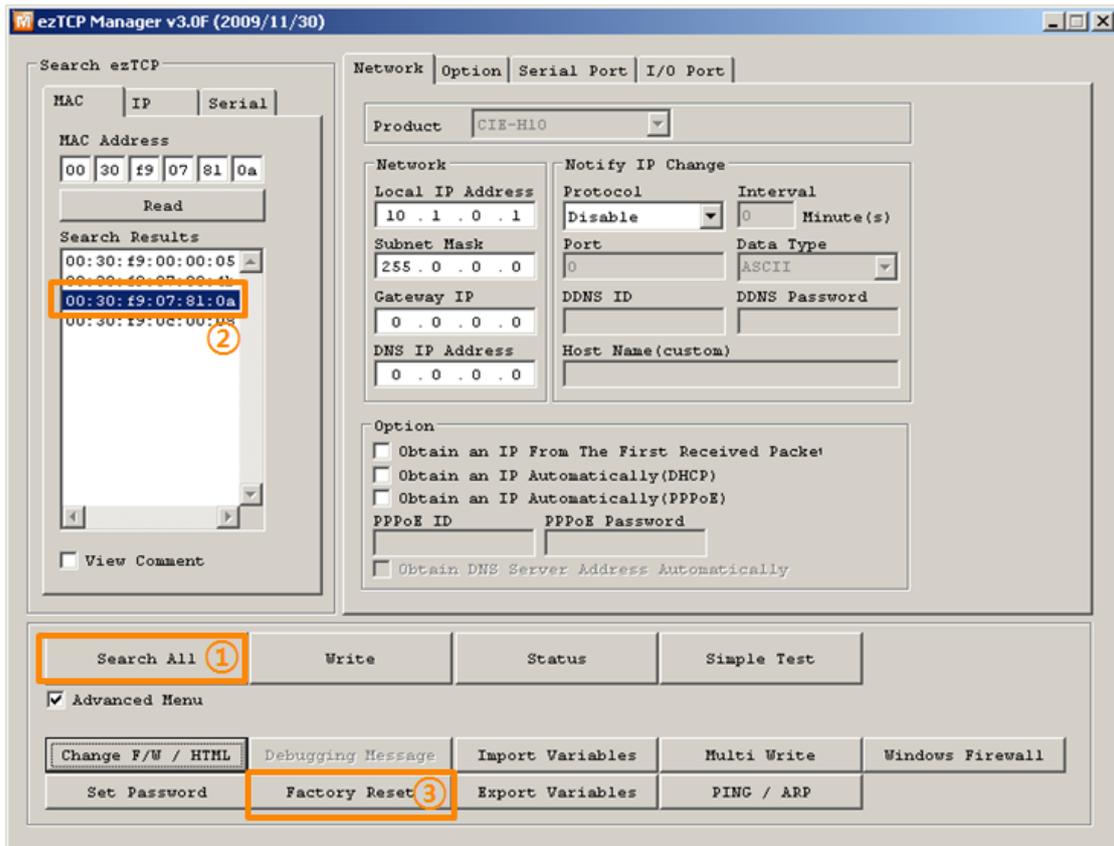
Fig 2-5 searching and factory reset

① Press the [Search All] button
② Select the CIE-H10 in the [Search Results] box
③ Click the [Factory Reset] button

2.1.5   Uploading Homepage

● Making Users' homepage or Downloading sample files

Make your own homepage file or use a sample homepage files which we've been offering on our web site.

● Entering ISP mode

Enter ISP mode to send HTML files to CIE-H10.

● Running a TFTP client and ready to send the HTML files

Run a TFTP client program. ezManager is equipped the client program. Click the [Change F/W / HTML] button.
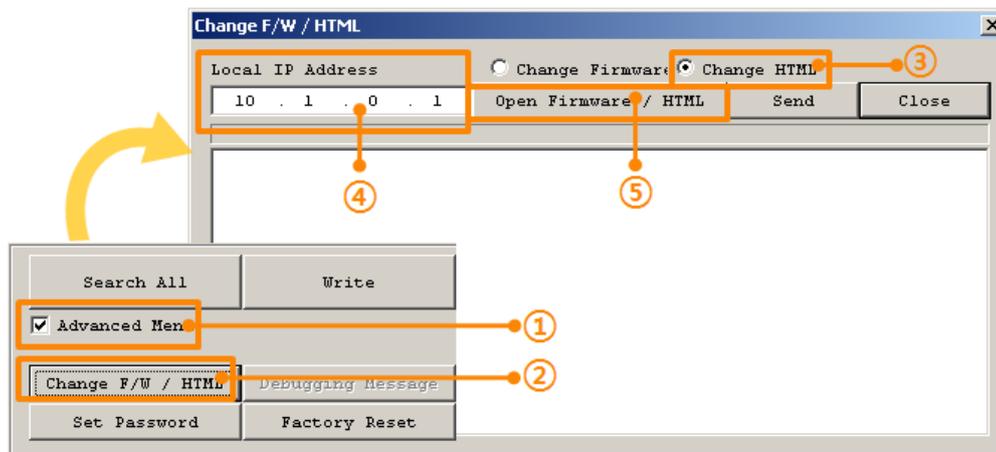
Fig 2-6 running TFTP client

① Check the [Advanced Menu] check box
② Click the [Change F/W / HTML] button to run TFTP client
③ Select the [Change HTML] radio button
④ Input the IP address of CIE-H10 to the [Local IP Address] text box
⑤ Press the [Open Firmware / HTML] button and choose the HTML file

● Checking firmware file and Sending
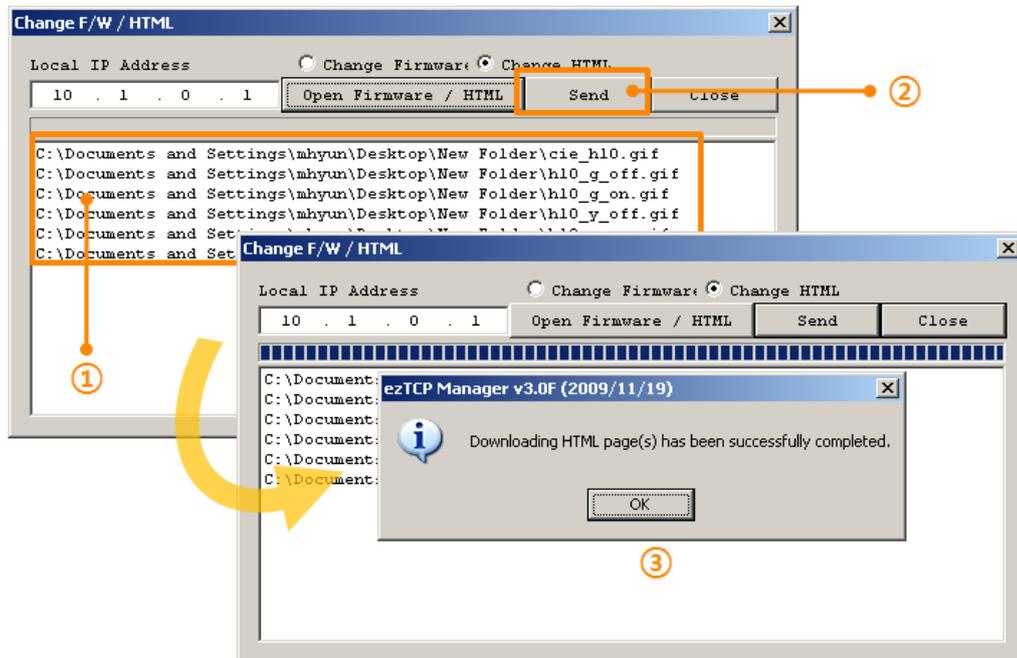
Fig 2-7 sending firmware file

① Check if the name and path of the firmware file are correct

② Click the [Send] button

③ Confirm the completed message

2.1.6   HTTP Test

After the uploading firmware is completed, CIE-H10 automatically operates in normal mode. Connect to the CIE-H10 with a web browser via HTTP and test it.
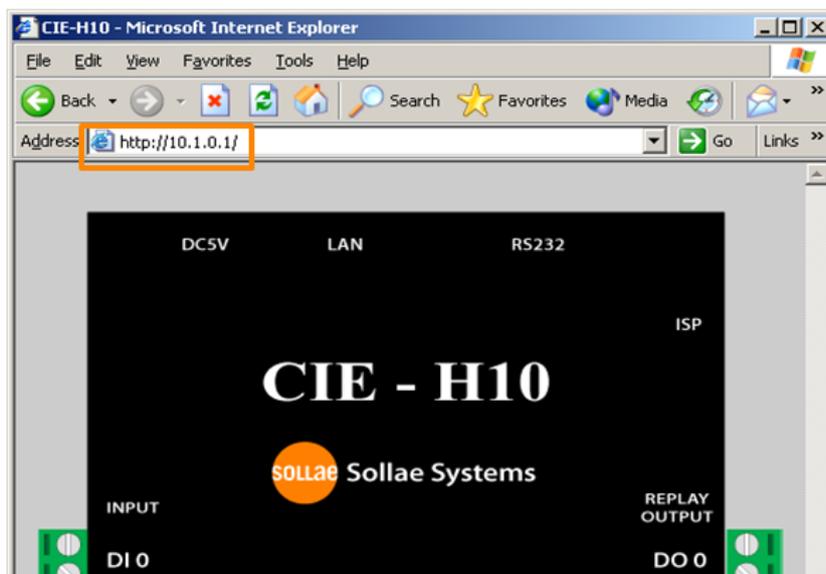
Fig 2-8 Connecting CIE-H10 (left) and CIE-M10 (right) through HTTP

3 Revision History

Date	Version	Comment	Author
2009.12.08	1.0	○ Initial Release	Roy LEE