

## FP0H Control Unit Upgrade Tool

Information you need to know before using the software (Essential reading)

### About FP0H Control Unit Upgrade Tool

FP0H Control Unit Upgrade Tool is the software to update the firmware by connecting a PC and the FP0H Control Unit with a USB cable.

Ethernet/IP EDS file "PanasonicFP0H\_0010\_0001.eds" are stored in this upgrade tool.

To use the EDS file with a Rockwell PLC please get in contact with [Panasonic](#).

This upgrade tool enables the upgrade of the Control Unit to the following version.

- Type without Ethernet function (AFP0HC32T/ AFP0HC32P) Ver.: 1.20
- Type with Ethernet function (AFP0HC32ET/ AFP0HC32EP) Ver.: 1.20

\*Please prepare a USB cable for connecting a PC with the FP0H Control Unit.

For using FP0H Control Unit, FPWIN Pro 7.2.3.0 / GR7 Ver.2.23.0 or later should be used.

### Caution

Be aware of the following points listed below.

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### System Requirements

Make sure that the computer on which you intend to run the software meets the minimum specifications listed below.

OS	Windows 7 / 8 (32bit / 64bit) / 10 (32bit / 64bit)
Available hard disk space	100MB or more
Recommended CPU	Pentium4 1GHz or more
Recommended system RAM	1 GB or more
Recommended display resolution	1280 x 800 px or more
Recommended color depth	High Color (32bit) or more

\*1 Microsoft Windows, Windows 7, 8 and 10 are registered trademarks of Microsoft Corporation in the United States and/or other countries.

## How to Install

1. Decompress the downloaded file.
2. Double-click the file (Fp0h\_V0120\_VupTool.exe) in the decompressed folder to activate the upgrade tool.

The following "Preparation for executing the upgrade tool" is required before the upgrade.

The screen of the upgrade tool will appear. Upgrade the FP7 CPU unit according to the procedure.

\* Do not turn off the power to the FP0H Control Unit or remove the USB cable during the upgrade. It may cause a damage to the FP0H Control Unit.

## Preparation for executing the upgrade tool

1. Confirm the product number of the FP0H Control Unit if it can be upgraded with this software.
2. Set the operation mode switch on the FP0H Control Unit to PROG.
3. Connect the target FP0H Control Unit and a PC with a USB cable, and turn on the power.
4. Back up a project of the FP0H Control Unit with FPWIN GR7/Pro7.
5. When FPWIN GR7/Pro7 is active, set it to offline.

# FP0H Control Unit Upgrade Tool Detailed Version-Up Information

## Version-up Information

### Details of revision of Ver.1.20 (June 4, 2018 update)

The following points have been upgraded.

- Added FTP server / client function. (\*1)
- SD card access command was added.(\*1)
- We added a multi connection server function.(\*1)  
Using the multi connection server function, servers with specified port numbers of the connectable number "n" can be configured by making the same server settings for continuous "n" connections using FPWIN GR7.
- Compatible with COM port slow baud rate.
- The specified keywords (CONNECT1, CONNECT2) of F465 (ETSTAT) instruction were added.(\*1)
- The specified address (MODBUS) of the F 145 (SEND) / F 146 (RECV) instruction has been extended.
- We have strengthened the upper limit exceeding check of the device.(\*1)
- The refresh function of EtherNet / IP was improved.(\*1)
- Fixed a bug that program contents differed when online editing and turning on power again after erasing the program.
- Fixed a bug that a self-diagnostic error (E20) occurs when the interrupt program is activated during execution of the floating-point real data operation instruction.
- Fixed a bug in F461 (CONSET) command.(Behavior when invalid parameter is specified)(\*1)
- Fixed a bug in F465 (ETSTAT) command.(Reflect timing when user connection is changed by CONSET instruction)(\*1)
- Fixed a bug that the periodical program is not executed depending on the timing of the input interrupt.
- Fixed a self-diagnosis error (E20) which is caused by CS control during data communication by COM1 cassette (RS-232C, 5 wire type).
- Fixed a bug in which retry might occur at TCP / IP disconnection from the other terminal.(\*1)
- Fixed a bug that logging stops right after switching to RUN mode when SD card with slow access speed is used.(\*1)
- Fixed a bug that special relay "communication error flag" does not turn ON when Ethernet setting "Reception buffer start address" is abnormal.(\*1)
- Fixed a communication failure with the scanner which occurs when the order of the scan list of EtherNet / IP settings is changed.(\*1)
- Fixed a bug that cyclic data to other scanners is not be updated when one scanner disconnects in EtherNet / IP cyclic communication with multiple scanners.(\*1)
- Fixed a bug that can't be reconnected for about 4 minutes when the line disconnection is made from the partner terminal during scanner operation on EtherNet / IP.(\*1)
- Fixed a bug that data update timing may be delayed when multiple scanners are connected with different RPI during adapter operation with EtherNet / IP.(\*1)
- Fixed a bug that the "transmission data delay time" of EtherNet / IP cyclic communication might be delayed more than the specified time.(\*1)
- Fixed a bug that the RUN / IDLE bit in EtherNet / IP cyclic data might not be set.(\*1)

\*1 : Type with Ethernet function (AFP0HC32T/ AFP0HC32P) only.

## Details of revision of Ver.1.10 (November 1, 2017 update)

The following points have been upgraded.

- The compatibility is improved in conversion from FP Sigma to FP0H.
- Changed the criterion of clock data used in the Logging / Trace Function from 2000 to 2001. (\*1)
- "Special Relays / Special Data Registers" can be specified for operand of the ethernet instruction. (\*1)
- "The number of characters + The character string" can be specified with F253(SSET) instruction. (\*1)
- "Open method(AUTO only)" can be specified with F461(CONSET) instruction. (\*1)
- COM port number can be specified by combination of F469(UNITSEL) instruction and F145(SEND)/F146(RECV)/F159(MTRN) instructions. (\*1)
- Fixed a bug that "No SD card free space" occurs with high speed logging. (\*1)
- Fixed a bug that ethernet communication stops when it repeat connection / disconnection by ethernet communication. (\*1)

\*1 : Type with Ethernet function (AFP0HC32T/ AFP0HC32P) only.