

PM595 AC500 EtherCAT update description



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1. New versions

The following table contains the overview of the new versions:

Device	Firmware
PM595 CPU FW	V2.5.1
PM595 FW-PROFINET IO	V2.8.1.2
PM595 FW-ETHCAT	V4.3.0.2

NOTICE: ONLY USABLE WITH Automation Builder FROM VERSION V1.2.x, PM595-4ETH should be updated to last new FW V2.5.1

2. What is needed?

For the Update of the communication coupler CM5xx the following components are needed:

Part number	Type	Description
1SAP180100R0001	MC502	MC502, SD Memory Card 512 MB
1SAP192000R4302	FW5xx-ETHCAT-PM595	Self-extracting file generating SD-Card for PM595 CPU FW update to V2.5.1 and PROFINET IO to V2.8.1.2 and SD-Card generation to update to ETHCAT FW V4.3.0.2
	PC-Accessory	SD-Card device for PC to generate SD Card Files.

3. Download of the Update

The ZIP data file “[1SAP192000R4302.zip](http://www.abb.com/plc)” containing Firmware files can be downloaded from the following ABB Website: <http://www.abb.com/plc>

4. Content of the Update

The ZIP data file “[1SAP192000R4302.zip](http://www.abb.com/plc)” is containing:

- This present document as information
- 1x Self extracting file “[Create SD-Card for Update from CPU FW V251 and PNIO for PM595.exe](#)” to create the SD-Card structure needed for Update of the FW of the PM595 CPU to V2.5.1 and the internal communication modules to PROFINET IO FW V2.8.1.2
- 1x Self extracting file “[Create SD-Card for Update to ETHCAT FW V4302 for PM595 internal coupler.exe](#)” to create the SD-Card structure needed for update of the internal communication module to EtherCAT FW V4.3.0.2

5. Update the PM595 CPU to actual FW V2.5.1 and the internal communication module to actual PROFINET IO FW V2.8.1.2

Is needed, because only that new FW supports the update to EtherCAT protocol, with that SD-Card, the PM595 CPU FW and the PROFINET IO FW from the internal communication modules will be updated in one operation:

- Unzip the file „**Create SD-Card for Update from CPU FW V251 and PNIO for PM595.zip**“ on SD Card
- Insert the SD Karte into the PM595
- Power Off / On
 - Run LED blinks
 - Run and Rdy LEDs on the left side of the PM595 (left column) for 1st. Internal coupler blink
 - RUN LED blinks
 - Run and Rdy LED on the left side of the PM595 (right column) for 2nd. Internal coupler blink
 - RUN LED blinks slowly
 - The procedure should require 2 – 3 minutes
- Remove the SD Card
- Power Off / On

6. Update internal coupler on EtherCAT FW (V4.3.0.2)

- Unzip the file „ **Create SD-Card for Update to ETHCAT FW V4302 for PM595 internal coupler.zip**“ on SD Card
- Insert the SD Karte into the PM595
- Power Off / On
 - Run LED blinks
 - Run and Rdy LEDs on the left side of the PM595 (left column) for 1st. Internal coupler blink
 - RUN LED blinks
 - Run and Rdy LED on the left side of the PM595 (right column) for 2nd. Internal coupler blink
 - RUN LED blinks slowly
 - The procedure should require 2 – 3 minutes
- Remove the SD Card
- Power Off / On
- Login in Automation Builder
- Version Information Firmware V 4.3.0.2 must be displayed