

CM579-PNIO (-XC)
communication module /
PM595-4ETH (-XC) CPU -
PROFINET firmware
update description

AC500

Scalable PLC
for Industrial Automation

CM579-PNIO (-XC) / PM595-4ETH (-XC) - PROFINET firmware update description



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1. New version(s)

The following table contains the overview of new firmware version(s):

Device	Firmware
CM579-PNIO	V2.8.9.21
PM595-4ETH (-XC) with internal PROFINET communication module	V2.8.9.21

Firmware changes:

- Minor stability improvements.

2. What is needed?

For the update of the communication coupler CM579-PNIO (-XC) the following components are needed:

Part number	Type	Description
1SAP180100R0001	MC502	MC502, SD Memory Card 512 MB
	PC accessory	SD card device for PC to copy generated SD card files to MC502

The firmware version is capable to run on the following hardware variants:

- CM579-PNIO, 1SAP170901R0001
- CM579-PNIO-XC, 1SAP370901R0001
- CM579-PNIO, 1SAP170901R0101
- CM579-PNIO-XC, 1SAP370901R0101
- PM595-4ETH with internal PROFINET communication module, 1SAP155500R0279
- PM595-4ETH-XC with internal PROFINET communication module, 1SAP351500R0279

To perform firmware update for CM579-PNIO (-XC), AC500 CPU with firmware V2.4.0 or higher is needed.

To perform firmware update for PM595-4ETH-XC internal PROFINET communication module, AC500 CPU with firmware V2.5.0 or higher is needed.

3. Download and installation of firmware update

The zip. file [3ADR010532.zip](http://www.abb.com/plc) containing self-extracting.exe files with firmware and can be downloaded from <http://www.abb.com/plc> using its download area.

Download the desired file [3ADR010532.zip](http://www.abb.com/plc) and open it. Extract these two self-extracting .exe files from downloaded .zip file on your PC hard disc:

- SD card image to update up to 4 external coupler CM579-PNIO (-XC) to firmware version V2.8.9.21
 - SD-Card_create_CM579-PNIO_V2_8_9_21.exe
- SD card image to update both internal communication modules of PM595-4ETH to firmware version V2.8.9.21
 - SD-Card_create_PM595-PNIO_V2_8_9_21.exe

3.1 Update using SD card

If the firmware update has to be done using SD card, then SD card image files shall be copied to the formatted SD card following this procedure:

1. Put the SD card into the SD card reader from your PC.
2. Select the SD card image data corresponding to the product to be updated (e.g. CM579-PNIO or PM595-4ETH):

- “SD-Card_create_CM579-PNIO_V2_8_9_21.exe”

or

- “SD-Card_create_PM595-PNIO_V2_8_9_21.exe”

respectively.

3. Using double click on the selected .exe file, the content can be automatically extracted (select the SD card directory as target for the extraction).
4. Click “OK” button and the file structure on the SD card with all needed files in the corresponding directories will be created.
5. Perform then the update of the created SDCARD.INI file according to your AC500 PLC configuration, as described in the AC500 documentation.

3.2 Update using Automation Builder software

One can also use Automation Builder for firmware update of AC500 modules by replacing the current delivered firmware version with this version V2.8.9.21. The following steps are necessary:

1. Close all Automation Builder instances
2. Navigate to the folder where the firmware files for the Automation Builder are installed:
 - For example, for AB 1.2.x or profile 1.2 (for CM579-PNIO and PM595-4ETH internal PROFINET communication module, respectively):
“C:\ProgramData\AutomationBuilder\AC500_Firmware_1.2\Coupler”

in folders “CM579-Profinet” and / or “CMETHPNM”, respectively, create a new folder named “2_8_9_21”
3. Copy the firmware file(s) to the newly created folder(s)
4. In folders “CM579-Profinet” and / or “CMETHPNM” delete all folders containing other firmware files than 2_8_9_21
5. Restart the Automation Builder and connect to AC500 CPU to perform firmware update using Automation Builder functionality, as described in the AC500 documentation.