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SIMATIC

S7-1200 G2 Firmware update V4.1
Product Information

Description

The following features are new in the V4.1 firmware update:

- OPC UA server
- System web pages for the Web server
- Additional modules:
  - Battery Board (BB) 1297
  - Communication Processor (CP) 1243-1 G2 Ethernet
  - Input Simulators (8 position and 14 position)
  - Signal Module (SM) 1223 DI 16x24VDC / DQ 16xrelay
  - Signal Module (SM) 1223 DI 16x24VDC / DQ 16x24VDC Sink
  - Signal Module (SM) 1223 DI 16x24VDC / DQ 16x24VDC
- Additional spare parts:
  - CB PtP terminal block
  - CM PtP terminal block
- Support for central users on UMC server
- Backup and Restore
- Modbus TCP redundancy instructions
- PROFINET security class 1
- Communication load default of 20%
- Support for a nesting depth of 26 hierarchical levels of Structs
- Support for Pulse Train Outputs (PTOs) in Motion control
- Additional Motion Control functionality
- Enhanced support for S7-1200 G2 Near Field Communication (NFC)

Inability to use memory cards created with S7-1200 G2 V1.0

If you formatted a SIMATIC memory card for an S7-1200 G2 V1.0 CPU in the TIA Portal, the card is incorrectly formatted for use with firmware V4.1.

The invalid memory card prevents the CPU from starting. The Diagnostic buffer reports the error and the Status LEDs indicate the missing program memory card pattern.

To correct the card formatting problem, follow these steps:

1. Copy the memory card contents to your computer.*
2. Using the CPU that you upgraded to firmware V4.1, format the memory card from the TIA Portal.
3. Restore the memory card contents from your computer to the memory card.

*Do not include the system files crdinfo.bin and __LOG__.

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Required user action

You can update the CPU firmware using one of the following methods:

- The Online & diagnostics functions of STEP 7
- The SIMATIC Automation Tool
- A SIMATIC Memory Card that contains the firmware update file from the Siemens Industry Online Support site

The S7-1200 G2 System Manual and the SIMATIC Automation Tool User Guide document these methods.
After you apply the CPU firmware update, verify that your application operates as expected.

NOTE

The firmware update process discards any additional data appended to the firmware update file. Appending data to a firmware update file has no effect on the firmware update or the S7-1200 G2 CPU. You cannot append data, for example, to add components.

Cybersecurity information

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We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

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