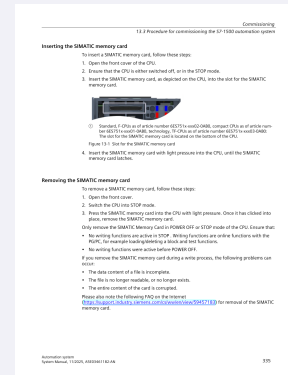


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

Siemens 6ES7954-8LC04-0AA0

SIMATIC 4 MB Memory Card



PRODUCT	6ES7954-8LC04-0AA0
FAMILY	SIMATIC S7 Memory Card
FUNCTION	SIMATIC 4 MB Memory Card
STATUS	Verify exact configuration

Prepared by Amikon Limited from Siemens S7-1500 / ET 200MP System Manual, A5E03461182-AN, 11/2025. This guide does not replace the complete manufacturer manual, site procedure, hazardous-area drawing, or approval document.

01 CONFIRM THE ORDERED CONFIGURATION

Memory technology	Flash-EPROM
Card form factor	SD memory card
Storage capacity	4 Mbyte
Operating voltage	3.3 V
Write/delete endurance	500,000 operations minimum
Data retention	10 years below 50,000 write/delete operations
High-cycle retention	1 year above 450,000 write/delete operations

02 MOUNTING AND CONNECTION

- Confirm the exact 6ES7954-8LC04-0AA0 article number and 4 MB capacity.
- Back up the existing project and record the target CPU or drive configuration.
- Place the CPU in STOP or switch it off as required by the controlled procedure.
- Open the CPU cover and align the card exactly as depicted on the device.
- Insert the card without forcing the contacts or changing its orientation.

OFFICIAL INSTALLATION REFERENCE

Commissioning

13.3 Procedure for commissioning the S7-1500 automation system

Inserting the SIMATIC memory card

To insert a SIMATIC memory card, follow these steps:

1. Open the front cover of the CPU.
2. Ensure that the CPU is either switched off, or in the STOP mode.
3. Insert the SIMATIC memory card, as depicted on the CPU, into the slot for the SIMATIC memory card.



- ① Standard, F-CPU as of article number 6ES751x-xxx02-0AB0, compact CPUs as of article number 6ES751x-xxx01-0AB0, technology, TF-CPU as of article number 6ES751x-xxx03-0AB0: The slot for the SIMATIC memory card is located on the bottom of the CPU.

Figure 13-1 Slot for the SIMATIC memory card

4. Insert the SIMATIC memory card with light pressure into the CPU, until the SIMATIC memory card latches.

Removing the SIMATIC memory card

To remove a SIMATIC memory card, follow these steps:

1. Open the front cover.
2. Switch the CPU into STOP mode.
3. Press the SIMATIC memory card into the CPU with light pressure. Once it has clicked into place, remove the SIMATIC memory card.

Only remove the SIMATIC Memory Card in POWER OFF or STOP mode of the CPU. Ensure that:

- No writing functions are active in STOP. Writing functions are online functions with the PG/PC, for example loading/deleting a block and test functions.
- No writing functions were active before POWER OFF.

If you remove the SIMATIC memory card during a write process, the following problems can occur:

- The data content of a file is incomplete.
- The file is no longer readable, or no longer exists.
- The entire content of the card is corrupted.

Please also note the following FAQ on the Internet

(<https://support.industry.siemens.com/cs/ww/en/view/59457183>) for removal of the SIMATIC memory card.

04

CARD HANDLING AND PROJECT CHECKS

- Back up the existing project and record the target CPU or drive configuration.
- Place the CPU in STOP or switch it off as required by the controlled procedure.
- Open the CPU cover and align the card exactly as depicted on the device.
- Insert the card without forcing the contacts or changing its orientation.
- Re-evaluate the stored project and verify startup behavior after insertion.

05

INITIAL SYSTEM CHECKS

- Confirm model identity and compatible system components before energizing.
- Verify the target device, card format and controlled project backup.
- Verify card recognition, project identity and CPU startup behavior.
- Record the installed order number and baseline operating condition.

06

CONTROLLED DOCUMENTS

Official source	Siemens S7-1500 / ET 200MP System Manual, A5E03461182-AN, 11/2025
Product record	6ES7954-8LC04-0AA0
Manufacturer	Siemens
Support	INFO@AMIKON.CN