

6ES7954-8LC04-0AA0

SIMATIC 4 MB Memory Card

Siemens 6ES7954-8LC04-0AA0 is a 4 MB SIMATIC flash memory card. It stores user programs, configuration, and device data for compatible SIMATIC and SINAMICS hardware.

PRODUCT SNAPSHOT

BRAND

Siemens

FAMILY

SIMATIC S7-1200 / S7-1500 and SINAMICS sto

PART

6ES7954-8LC04-0AA0

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PRODUCT OVERVIEW

Siemens 6ES7954-8LC04-0AA0 is a 4 MB SIMATIC flash memory card. It stores user programs, configuration, and device data for compatible SIMATIC and SINAMICS hardware.

- 1

Provides nonvolatile storage for a compatible SIMATIC CPU or SINAMICS device
- 2

Retains user program, configuration, and device data across power cycles
- 3

Supports project transfer using a programming device or approved card reader
- 4

Provides the removable storage medium required by selected controller workflows

SYSTEM COMPONENTS

- compatible S7-1200 or S7-1500 CPU
- SINAMICS device supporting the card
- TIA Portal project
- approved SD card reader

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
6EP1434-2BA20	SITOP industrial power supply	Open product page
6ES7432-1HF00-0AB0	SIMATIC S7-400 analog output module	Open product page

TECHNICAL DATA

PARAMETER	VALUE
Memory type	Flash
Memory capacity	4 MB

PARAMETER	VALUE
Operating voltage	3.3 V
Card format	SIMATIC memory card

SYSTEM CONNECTION AND ACCEPTANCE RECORD

RECORD ITEM	DOCUMENTED ASSIGNMENT
Installed host / carrier	compatible S7-1200 or S7-1500 CPU
Companion hardware	SINAMICS device supporting the card
Field connection	TIA Portal project
Primary system function	Provides nonvolatile storage for a compatible SIMATIC CPU or SINAMICS device
Controlled acceptance duty	Controller program storage

TECHNICAL NOTE

Power down the host when required, protect the contacts from ESD and contamination, and verify the complete project, firmware compatibility, and CPU operating state after inserting 6ES7954-8LC04-0AA0.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Controller program storage

Provides nonvolatile storage for a compatible SIMATIC CPU or SINAMICS device

CPU commissioning and project transfer

Retains user program, configuration, and device data across power cycles

Automation-system backup media

Supports project transfer using a programming device or approved card reader

SINAMICS parameter and firmware workflows

Provides the removable storage medium required by selected controller workflows

PRODUCT PRECAUTIONS

- 1 Verify 6ES7954-8LC04-0AA0 and the 4 MB capacity before use.
- 2 Back up the existing project and identify the destination CPU or drive.
- 3 Use ESD controls and handle the card only by its edges.
- 4 Do not format the card with an unsupported operating-system utility.
- 5 Confirm the project and firmware are approved for the target hardware.
- 6 Insert and remove the card only under the host procedure.
- 7 Observe startup diagnostics and confirm the intended program is active.
- 8 Retain a controlled copy of the final project and card identity.

ENGINEER FAQ

Q1 Can 6ES7954-8LC04-0AA0 be replaced by a visually similar model without review?

No. Verify the complete part number, electrical execution, connector arrangement, companion hardware, and approved software or rack configuration.

Q2 What commissioning evidence should be retained for 6ES7954-8LC04-0AA0?

Retain the full 6ES7954-8LC04-0AA0 identity, as-left wiring and settings, measured functional-test results, final diagnostics, and authorization to return the affected equipment to service.

Q3 Which installed hardware must be matched before fitting 6ES7954-8LC04-0AA0?

Match the complete 6ES7954-8LC04-0AA0 marking to compatible S7-1200 or S7-1500 CPU and SINAMICS device supporting the card, then confirm the assigned SIMATIC S7-1200 / S7-1500 and SINAMICS storage position and approved system configuration.

Q4 How should the field connections for 6ES7954-8LC04-0AA0 be recorded before replacement?

Record terminal or connector identity, polarity, shield, cable tag, channel assignment, and the as-found diagnostic state before disconnecting 6ES7954-8LC04-0AA0.

Q5 What isolation is required before installing 6ES7954-8LC04-0AA0?

Place controller program storage in the approved maintenance state, isolate every applicable power, signal, and stored-energy source, and prove the work area safe.

Q6 Which configuration check is essential when commissioning 6ES7954-8LC04-0AA0?

Restore only the approved model-specific channel, range, address, scale, or interface settings and compare them with the physical installation before enabling the process function.

Q7 How can an engineer function-test 6ES7954-8LC04-0AA0 after installation?

Apply a controlled input, reference, or limited output appropriate to simatic 4 mb memory card, observe the system indication and diagnostics, and confirm the intended process response.

Q8 What should be checked if 6ES7954-8LC04-0AA0 reports an unstable or incorrect value?

Check seating, supply, grounding, shielding, matched components, mechanical installation, and the signal path before changing configuration or replacing additional hardware.