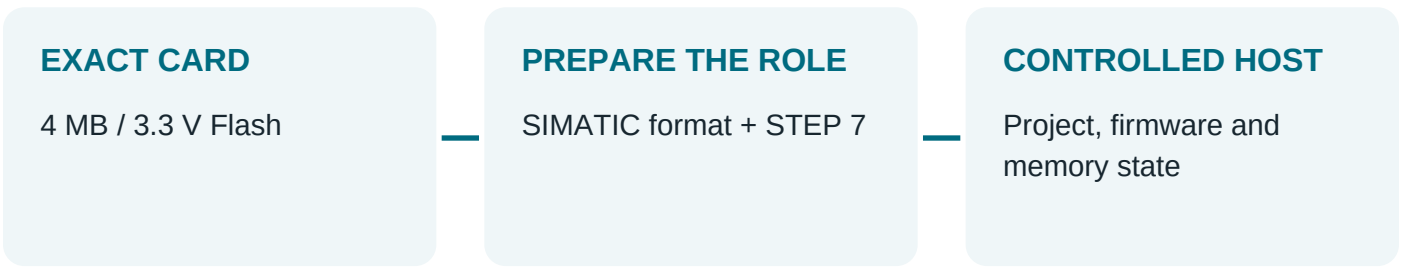


Siemens 6ES7954-8LC02-0AA0

Flash Memory Card

Siemens 6ES7954-8LC02-0AA0 is a 4 MB, 3.3 V Flash SIMATIC S7 memory card for supported S7-1x00 CPU and SINAMICS installations. In the S7-1200 V4.2 workflow, its configured role determines whether it transfers a project to internal load memory or remains installed as external program memory.



Memory-card family	SIMATIC S7
Flash capacity	4 MB
Flash voltage	3.3 V
Memory technology	Flash
Manufacturer-listed host scope	S7-1x00 CPU / SINAMICS; verify the exact host and firmware

CAPACITY IS NOT WORK MEMORY

Card capacity is not CPU work-memory capacity. Match the complete order number, card contents, configured role and project size to the installed host; the S7-1200 procedures below are not universal operating instructions for every SINAMICS or S7 CPU.

Important Notice: Card insertion can stop a running S7-1200 CPU. Preserve the protected card files and verify the program-card versus transfer-card role before return to service; 4 MB does not establish that every firmware package will fit.

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Flash Memory Card

S7-1200 memory-card requirement	Pre-formatted SIMATIC memory card
S7-1200 configured card roles	Transfer card or program card
Transfer-card destination in S7-1200	CPU internal load memory
Program-card function in S7-1200	External load memory
Program-card retention in S7-1200	Must remain in the CPU during operation

Transfer card Copies an approved project to S7-1200 internal load memory. Remove after the completed copy sequence before returning to RUN.

Program card Holds external load memory. It remains installed during operation; removal stops the CPU.

Blank-card evaluation The Disable copy setting determines whether internal load memory is copied and the internal copy erased. Inspect it before inserting an empty card.

STARTUP IS PART OF THE PROJECT

Choose the target CPU startup mode before copying its project to the card. The selected STOP, RUN or previous-mode behavior belongs to the CPU configuration, not a switch on the memory card.

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Flash Memory Card

S7-1200 insertion during RUN	CPU transitions to STOP
Card write protection	Lock-position switch
PC preparation interface	SD card reader/writer with STEP 7
Card-type configuration in STEP 7	Memory card Properties / Card type
Required protected files	__LOG__ and crdinfo.bin
Operating-system formatting	Windows formatter must not overwrite the SIMATIC format
S7-1200 program-card removal	Loss of external load memory; CPU enters STOP
Project content copied to the card	Code blocks, data blocks, technology objects and device configuration
Startup selection in copied project	STOP, RUN or previous mode; configured for the actual CPU
Empty-card copy behavior in S7-1200	Depends on Disable copy from internal load memory to external load memory setting
Card handling protection	Grounded ESD precautions; conductive storage container

KEEP THE FORMAT

Windows formatting tools must not overwrite the SIMATIC-specific card format.

KEEP THE CARD FILES

Retain __LOG__ and crdinfo.bin; these are not obsolete application folders.

Back up required project and process data first. Clearing old contents is a controlled service operation, not permission to remove hidden card files or format the medium.

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Flash Memory Card

Does the 4 MB on 6ES7954-8LC02-0AA0 enlarge the CPU's work memory?

The 4 MB describes card storage, not a change to the CPU's code/data work memory. In S7-1200 program-card use it supplies external load memory; CPU processing and work-memory limits remain properties of the installed CPU.

When should a transfer card be removed, and when must a program card stay installed?

A transfer card is removed after the project has been copied to internal load memory and before the final return to RUN. A program card must remain installed because it holds external load memory; removing it stops the CPU.

Can a blank card change the program's storage location without a STEP 7 download?

For S7-1200, evaluation of a blank card can copy internal load memory to a program card and erase the internal copy. The Disable copy from internal load memory to external load memory setting changes that blank-card behavior. Check this setting before inserting an empty replacement.

Which files must remain when an S7-1200 card is prepared for reuse?

Keep __LOG__ and crdinfo.bin. They are protected card files, not old application data. Clearing obsolete project, recipe or log contents must preserve these files and the SIMATIC card format.

Will a locked card always prevent the S7-1200 from powering up?

Not necessarily. A write-protected card generates a diagnostic message at the next power-up, while recipe or data-log instructions may fail when they need to write. Check the physical Lock switch rather than interpreting startup alone as proof of write access.

Can a V3.0 transfer project be inserted unchanged into an S7-1200 V4.0 CPU?

No. That program version is not compatible with the later CPU workflow described here. Convert the device configuration in TIA Portal and prepare a valid project for the target CPU instead of treating a matching card capacity as project compatibility.

Does copying a project to the card also copy its force values?

The copied program contains program blocks, technology objects and device configuration, but not force values. Existing force jobs and load-memory state need separate review before preparing or replacing a card.

Is this 4 MB card large enough for every firmware update?

Capacity alone does not establish that. Compare the exact host's update package and card requirements with the available space. Preserve the SIMATIC format and follow the host-specific update sequence; do not import a larger memory-card capacity into this order number.

SIMATIC S7 PORTFOLIO CATALOG

SIMATIC S7 portfolio browsing only. These are not memory-card substitutes and no card fit, host pairing or project compatibility is asserted.

[View Siemens 6ES7223-1BH32-0XB0 page](#)

[View Siemens 6ES7223-1BL32-0XB0 page](#)

[View Siemens 6ES7223-1PL32-0XB0 page](#)

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Flash Memory Card

01 / CARD SERVICE

Place the machine or process in a safe maintenance state; card insertion can force an S7-1200 CPU into STOP.

02 / CARD SERVICE

Use grounded ESD controls and keep the card in a conductive storage container when not installed.

03 / CARD SERVICE

Check the Lock switch before a write operation; write-protected cards can cause recipe or data-log errors.

04 / CARD SERVICE

Do not format the card with Windows tools or delete the protected __LOG__ and crdinfo.bin files.

05 / CARD SERVICE

Back up required project and process data before clearing old card contents under an authorized service procedure.

06 / CARD SERVICE

Choose Transfer or Program in STEP 7 for the intended S7-1200 workflow and verify the project's startup mode.

07 / CARD SERVICE

Retain a program card during operation; remove a transfer card only after its completed copy sequence.

08 / CARD SERVICE

After evaluation, check the actual CPU diagnostics, installed program revision and intended process response before release.

FIRMWARE SPACE IS A SEPARATE CHECK

The card identity establishes 4 MB storage only. Check the exact host update package, its required capacity and the available space before preparing a firmware update; the general update procedure does not prove every package fits.

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Flash Memory Card

SOURCE LEDGER

Siemens SiePortal exact product record

6ES7954-8LC02-0AA0; 4 MB, 3.3 V Flash; accessed 12 October 2026. The successor's technical values are not used.

S7-1200 Programmable Controller System Manual

V4.2, 09/2016, A5E02486680-AK; original pp138-150,1546,1563. The exact 4 MB order code is listed in both card tables.

STEP 7 Professional Readme

Programming and Operating Manual, 12/2014, original p7; SIMATIC format and retained force-job handling.

Manufacturer Manual Excerpt: 17 unchanged original pages from the 1614-page system manual. Its S7-1200 workflows are scoped to that host; it is not a universal SINAMICS operation manual.

FACT-TO-PAGE TRACEABILITY

Exact card identity	SiePortal exact 8LC02 record; AK original pp1546,1563
Load-memory roles	AK original pp138,142-147
Blank-card evaluation	AK original pp140-141,145
Protected files and preparation	AK original pp143,146,149; Readme p7
Write protection and process state	AK original pp139,144,147
Firmware procedure boundary	AK original pp148-150; verify package size separately

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