Siemens 6ES7952-1AM00-0AA0

Complete Product Information

Siemens 6ES7952-1AM00-0AA0 is a long-design 4 MB RAM memory card for SIMATIC S7-400 load-memory applications with host-dependent backup.

Operating context

The long-design MC 952 card provides 4 Mbytes of RAM for the S7-400 platform. RAM is volatile storage, so its behavior during loss of system power depends on the host backup arrangement. It must not be treated as a nonvolatile Flash card solely because the capacity matches.

For this card the MC 952 technical table gives 45 mA typical and 100 mA maximum operating current at 5 V. Backup current is 5 µA typical and 60 µA maximum. These are card values and must be considered within the installed CPU backup design.

Keep a verified program and data archive before a planned power interruption or card replacement. Check the CPU load-memory requirements separately from its work-memory capacity. Commissioning must confirm the expected application, retained data and diagnostic state with the actual host CPU.

Configuration snapshot

Product type	MC 952 memory card
System	SIMATIC S7-400
Memory technology	RAM
Capacity	4 Mbytes
Design	Long design
Operating current	45 mA typical; 100 mA maximum at 5 V
Backup current	5 µA typical; 60 µA maximum

02 Technical configuration and interfaces

Storage behavior	RAM retention depends on the host backup arrangement

System and configuration relationships

System relationship

RAM-card replacement is a memory-retention task as well as a hardware match; keep the application archive and backup-power arrangement together.

Configuration boundary

No. This card is RAM. A Flash EPROM card has different retention and program-storage behavior, even where the nominal capacity is the same.

Offered reference	6ES7952-1AM00-0AA0
Technical scope	Technical values apply to the complete 6ES7952-1AM00-0AA0 execution. The card current values use the exact MC 952 order-number entry in the S7-400 CPU specifications.

03 Applications and precautions

Application context

RAM load-memory expansion

Use this RAM card within a supported S7-400 load-memory configuration. Confirm the long-design card identity and the actual CPU support before installation.

Retention-power assessment

Include the memory card in the installed CPU backup calculation. Retention during supply interruption depends on the complete host backup arrangement.

Application recovery planning

Keep an independent application archive when preparing RAM-card replacement. Verify the restored program, retained data and diagnostics before returning the controller to service.

Host memory coordination

Review card load memory and CPU work memory as separate resources. Match the application requirements to the installed CPU configuration and supported card capacity.

Commissioning precautions

Protect RAM retention

This MC 952 card uses RAM. Retention through a supply interruption depends on the actual host backup arrangement.

Verify the host CPU

The complete order number identifies a long-design 4 Mbyte RAM card for the SIMATIC S7-400 family. Verify support for the actual CPU.

Budget operating current

At 5 V the card draws 45 mA typically, with a maximum of 100 mA.

Check backup demand

The technical table specifies 5 µA typical and 60 µA maximum. Include the card in the host backup-current calculation.

Retain a safe application archive

RAM requires retention power. Record the installed CPU backup method and maintain an independent application archive before power interruption or replacement.

Keep card and CPU memory distinct

The 4 Mbyte value describes the card capacity. CPU work-memory partitions and supported load-memory configuration are separate specifications.

04 Engineering questions

Is the storage in 6ES7952-1AM00-0AA0 volatile?

Yes. This MC 952 card uses RAM. Retention through a supply interruption depends on the actual host backup arrangement.

Which controller family uses 6ES7952-1AM00-0AA0?

The complete order number identifies a long-design 4 Mbyte RAM card for the SIMATIC S7-400 family. Verify support for the actual CPU.

What is the operating-current budget for 6ES7952-1AM00-0AA0?

At 5 V the card draws 45 mA typically, with a maximum of 100 mA.

How much backup current is specified for 6ES7952-1AM00-0AA0?

The technical table specifies 5 µA typical and 60 µA maximum. Include the card in the host backup-current calculation.

Why should the backup arrangement be checked with 6ES7952-1AM00-0AA0?

RAM requires retention power. Record the installed CPU backup method and maintain an independent application archive before power interruption or replacement.

Does the 4 Mbyte rating of 6ES7952-1AM00-0AA0 describe CPU working memory?

No. It describes the card capacity. The CPU work-memory partitions and supported load-memory configuration are separate specifications.

What must be checked after loading 6ES7952-1AM00-0AA0?

Confirm that the intended program and data are present, the hardware configuration matches the installed controller and diagnostics allow the planned startup.

Is 6ES7952-1AM00-0AA0 the same storage execution as a Flash EPROM card?

No. This card is RAM. A Flash EPROM card has different retention and program-storage behavior, even where the nominal capacity is the same.

05 Lifecycle and offered-unit information

Lifecycle status

6ES7952-1AM00-0AA0: The product is in the manufacturer phase-out announcement stage.

Support and replacement: Confirm current service and replacement guidance with Siemens using the complete marking, hardware revision and installed configuration.

Availability: Apter Power supply availability is confirmed separately from manufacturer lifecycle and support status.

Explore other Siemens references

Portfolio navigation only; no compatibility or substitution is implied.

Siemens 6ES7953-8LL31-0AA0	View product
Siemens 6ES7193-4CC20-0AA0	View product
Siemens 6ES7193-4CA40-0AA0	View product

Available unit details

Offered reference: Siemens 6ES7952-1AM00-0AA0. Condition: New, original product.

Identity check: Technical values apply to the complete 6ES7952-1AM00-0AA0 execution. The card current values use the exact MC 952 order-number entry in the S7-400 CPU specifications.

Included items: Confirm the RAM card only, application contents and host backup arrangement; CPU and batteries are separate.

Technical reference

Siemens 6ES7952-1AM00-0AA0 Data Sheet; S7-400 Automation System CPU Specifications, A5E00267840-03

Discuss your complete reference

Siemens 6ES7952-1AM00-0AA0

New, original product

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