SIMATIC MEMORY CARDS

Product Data Sheet

6ES7954-8LC04-0AA0

Four-megabyte flash memory card

STORAGE CAPACITY	FLASH SUPPLY DESIGNATION	MEMORY TECHNOLOGY	MINIMUM WRITE/ERASE ENDURANCE
4 Mbyte	**3.3 V**	**Flash EPROM**	**500000 cycles**

Siemens 6ES7954-8LC04-0AA0 is a 4 Mbyte SIMATIC memory card for supported S7-1x00 CPUs and SINAMICS equipment. It uses Flash EPROM technology with the 3.3 V flash designation. The removable, nonvolatile medium stores the data assigned by the compatible host rather than providing additional working RAM for every controller.

01 TECHNICAL DATA

Storage capacity	4 Mbyte
Flash supply designation	3.3 V
Memory technology	Flash EPROM
Minimum write/erase endurance	500000 cycles
Retention below 50000 write/erase cycles	10 years minimum after final programming
Retention above 450000 write/erase cycles	1 year minimum after final programming

02 ADDITIONAL PRODUCT DATA

The card is specified for at least 500000 write/erase operations. Data retention after final programming depends on accumulated wear: at fewer than 50000 write/erase operations the stated minimum is ten years, while above 450000 operations it is one year. The memory capacity and the host-specific program or data requirements must be considered together when selecting its operating role.

03 PRODUCT FUNCTION

Use 6ES7954-8LC04-0AA0 only in the supported SIMATIC or SINAMICS host and its documented card role. The 4 Mbyte capacity is nonvolatile storage, not a blanket increase in controller working memory. Confirm the engineering tool, firmware and supported card procedure for that host.

04 SYSTEM COMPATIBILITY

Prepare the program and configuration through the supported Siemens workflow. Keep a separate backup of the original project before writing or transferring files. Avoid treating a generic operating-system format as an equivalent way of preparing a SIMATIC card.

05 REFERENCE

Siemens 6ES7954-8LC04-0AA0 Data Sheet, 17 October 2024, page 1.

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