Simatic memory card

 Memory cards are storage devices designed for the S7-1500/S7-1200 and LOGO series. These are special Windows-compatible SD cards designed for heavy use. The cards are available in a special format, the price is sky-high, and they are very easy to damage; never format them with Windows!

You can only delete files and folders. Formatting the SIMATIC memory card with Windows tools will render it unusable as storage for an S7 CPU. This would be unfortunate because these SD cards are quite costly.

Memory cards for SIMATIC S7-1200 and S7-1500 PLC series in sizes 4 MB, 12 MB, 24 MB, 256 MB, and 2 GB.

Folders on SD card

Folder	Description
SIMATIC.S7S	The PLC program is stored here and is loaded into the working memory by the PLC at startup, along with the hardware configuration elements. If the card or file is missing, the PLC will not start
FWUPDATE.S7S	Firmware update files for CPU and I/O modules
SINAMICS.S7S	If "SINAMICS Integrated" is configured: Project data of SINAMICS Integrated.
SIMATIC.HMI	HMI-relevant data
SET_PWD.S7S	Folder for Password
MCRC	"Motion Control Runtime Component" folder for Motion Control UPD files
DEVICE_INFO.S7S	Folder for device information
DataLogs	DataLog files
Recipes	Recipe files
UserFiles	User data
Backups	Backup files
DUMP.S7S	Service data files

Simatic functions that modify the contents of the SD card

Block	Function Name	Description
FB	FileWriteC	Write file on the memory card
FB	FileDelete	Delete file on the memory card
FB	SET_TIMEZONE	Set time zone
SFC 84	WRIT_DBL	Write to the data block in the load memory
SFC 84	CREATE_DB	Create a data block
SFC 95	DELETE_DB	Delete a data block

Block	Function Name	Description
SFB 140	DataLogCreate	Create a data log
SFB 142	DataLogWrite	Write a data log
SFB 143	DataLogClear	Clear a data log
SFB 144	DataLogClose	Close a data log
SFB 145	DataLogDelete	Delete a data log
SFB 147	DataLogOpen	Open a data log
SFB 148	DataLogNewFile	Data log in a new file
SFB 1003	RecipeExport	Export a recipe

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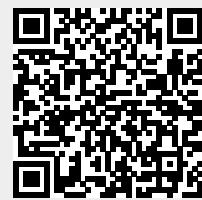
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