SIEMENS

Data sheet 6AV2181-8XP00-0AX0



SIMATIC SD memory card 2 GB secure digital card for devices with corresponding slot, scope of supply: 1 memory card

General information	
Product type designation	SD memory card
Control elements	
Frame size/design	
● Standard	Yes; Typically 10 000 insertion cycles
● Flat	Yes
Installation type/mounting	
Mounting position	Any, dependent on target device
Mounting in portrait format possible	Yes
Mounting in landscape format possible	Yes
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	3.3 V; Max 3.6 V
Input current	
Current consumption (rated value)	100 mA; Typical, maximum value
Storage	
Type of memory	Secure Digital memory card
Memory size	2 Gbyte
Transmission rate for reading, max.	600 Mbit/s; Typical
Transmission rate for writing, max.	600 Mbit/s; Typical
Wear leveling (distributed writing)	Yes
Write protection switch	Yes; Effectiveness depends on the device
Interfaces	
Device-side interface	
● Number of pins device-side	9
Standards, approvals, certificates	
CE mark	Yes
UKCA mark	Yes
UL approval	Yes
cULus	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
RoHS conformity	Yes
China RoHS compliance	Yes
Marine approval	Yes; Passive component, therefore dependent on target device
Use in hazardous areas	
● ATEX Zone 2	Yes; Always comply with the operating instructions of the target device.
● ATEX Zone 22	Yes; Always comply with the operating instructions of the target device.
● IECEx Zone 2	Yes; Always comply with the operating instructions of the target device.

Subject to change without notice
© Copyright Siemens

● IECEx Zone 22	Yes; Always comply with the operating instructions of the target device.
● cULus Class I Zone 2, Division 2	Yes; Always comply with the operating instructions of the target device.
● FM Class I Division 2	Yes; Always comply with the operating instructions of the target device.
Marine approval	
● Germanischer Lloyd (GL)	Yes; Always comply with the operating instructions of the target device.
● American Bureau of Shipping (ABS)	Yes; Always comply with the operating instructions of the target device.
● Bureau Veritas (BV)	Yes; Always comply with the operating instructions of the target device.
● Det Norske Veritas (DNV)	Yes; Always comply with the operating instructions of the target device.
● Lloyds Register of Shipping (LRS)	Yes; Always comply with the operating instructions of the target device.
● Nippon Kaiji Kyokai (Class NK)	Yes; Always comply with the operating instructions of the target device.
● Polski Rejestr Statkow (PRS)	Yes; Always comply with the operating instructions of the target device.
● Chinese Classification Society (CCS)	Yes; Always comply with the operating instructions of the target device.
● Compass working clearance	5 m
Ambient conditions	
Suited for indoor use	Yes
Suited for outdoor use	No
Ambient temperature during operation	
● min.	0 °C
● max.	55 °C
Ambient temperature during storage/transportation	
● min.	-25 °C
● max.	70 °C
Relative humidity	
● Operation, max.	95 %
● Condensation permissible	No; Condensation not permissible
Operating systems	
pre-installed operating system	
● Windows CE	No; Preinstalled system files
Runs under operating system	
● Windows CE	Yes
● Windows Vista	Yes
● Windows XP	Yes
● Windows 7	Yes
● Windows 8	Yes
● Windows 10	Yes
● Linux	Yes
● other	Yes; Card must not be formatted!
Mechanics/material	
Enclosure material (front)	
● Plastic	Yes; Gold contacts
Enclosure color (front)	RAL 6034 (color deviation possible)
Service life	
● Number of operating cycles, keys	10; min. data storage without loss of data (in years) with new card
Dimensions	
Width	24 mm
Height	32 mm
Thickness	2.1 mm
Weights	
Weight (without packaging)	3 g
Weight (with packaging)	6 g
Scope of supply	
Delivery quantity in pieces	1
Other	
Merchandise	No
Manufacturer name	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	Especially for KTP Mobile Panels 2nd Generation, MP377 and Comfort Panels, but also for all other panels (other than Classic Panels) and PCs with suitable slot

© Copyright Siemens

Note:	Not suitable for MP177, MP277, Mobile Panel 277, OP77, TP/OP177, TP/OP277 and Mobile Panel 177

Classifications

	Version	Classification
eClass	16	27-33-02-92
eClass	14	27-33-02-92
eClass	12	27-33-02-92
eClass	9.1	27-33-02-92
eClass	9	27-33-02-92
eClass	8	27-24-92-03
eClass	7.1	27-24-92-03
eClass	6	27-24-92-03
ETIM	10	EC002584
ETIM	9	EC002584
ETIM	8	EC002584
ETIM	7	EC002584
IDEA	4	3552
UNSPSC	15	32-15-17-03

Approvals / Certificates

General Product Approval











General Product Approval	EMV




Further information

Usable in the following products: Detailed information can be found in the cross-list, which is available for download in the following SIOS note: 40466415
https://support.industry.siemens.com/cs/document/40466415/status-of-the-simatic-hmi-accessories-and-cross-list-update?dti=0&lc=en-WW

last modified: 4/3/2025

© Copyright Siemens