6AV2181-8XP00-0AX0

## **Data sheet**



SIMATIC SD memory card 2 GB Secure Digital Card for For devices with corresponding Slot Further information, Quantity and content: see technical data

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
Memory	
Type of memory	Secure Digital memory card
Memory size	2 048 Mbyte; Larger internal memory
Transmission rate for reading, max.	1.6 Mbit/s; Minimum, typical for newly formatted memory
Transmission rate for writing, max.	1.6 Mbit/s; Minimum, typical for newly formatted memory
Wear leveling (distributed writing)	Yes; > 100 000 write/read cycles per cell and > 3 000 000 write/read cycles per card
Write protection switch	Yes; Effectiveness depends on the device
Interfaces	
Device-side interface	
<ul> <li>Number of pins device-side</li> </ul>	9
Standards, approvals, certificates	
CE 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.
• 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	Van Alugue complessible the expection inchreation of the toront device
Germanischer Lloyd (GL)     American Bursou of Shipping (ABS)	Yes; Always comply with the operating instructions of the target device.
<ul><li>American Bureau of Shipping (ABS)</li><li>Bureau Veritas (BV)</li></ul>	Yes; Always comply with the operating instructions of the target device.  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.  Yes; Always comply with the operating instructions of the target device.
Lloyds Register of Shipping (LRS)     Nippon Kajii Kyokai (Class NK)	
<ul><li>Nippon Kaiji Kyokai (Class NK)</li><li>Polski Rejestr Statkow (PRS)</li></ul>	Yes; Always comply with the operating instructions of the target device.  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	3111
Suited for indoor use	Yes
Suited for intdoor use  Suited for outdoor use	Yes; possible under certain conditions
Ambient temperature during operation	res, possible under certain conditions
min.	-30 °C
• max.	60 °C
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	80 °C
Relative humidity	
Operation, max.	95 %
Condensation permissible	No; Condensation not permissible
Operating systems	
oporating cyclemo	
pre-installed operating system	
pre-installed operating system  • Windows CF	No: Preinstalled system files
Windows CE	No; Preinstalled system files
Windows CE  Runs under operating system	
Windows CE	No; Preinstalled system files  Yes Yes
Windows CE  Runs under operating system     Windows CE	Yes
Windows CE  Runs under operating system     Windows CE     Windows Vista	Yes Yes
<ul> <li>Windows CE</li> <li>Runs under operating system</li> <li>Windows CE</li> <li>Windows Vista</li> <li>Windows XP</li> </ul>	Yes Yes Yes
<ul> <li>Windows CE</li> <li>Runs under operating system</li> <li>Windows CE</li> <li>Windows Vista</li> <li>Windows XP</li> <li>Windows 7</li> </ul>	Yes Yes Yes
<ul> <li>Windows CE</li> <li>Runs under operating system</li> <li>Windows CE</li> <li>Windows Vista</li> <li>Windows XP</li> <li>Windows 7</li> <li>Windows 8</li> </ul>	Yes Yes Yes Yes Yes
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<ul> <li>Windows CE</li> <li>Runs under operating system</li> <li>Windows CE</li> <li>Windows Vista</li> <li>Windows XP</li> <li>Windows 7</li> <li>Windows 8</li> <li>Windows 10</li> <li>Linux</li> <li>other</li> </ul>	Yes Yes Yes Yes Yes Yes Yes No
<ul> <li>Windows CE</li> <li>Runs under operating system</li> <li>Windows CE</li> <li>Windows Vista</li> <li>Windows XP</li> <li>Windows 7</li> <li>Windows 8</li> <li>Windows 10</li> <li>Linux</li> <li>other</li> </ul> Mechanics/material	Yes Yes Yes Yes Yes Yes Yes No
<ul> <li>Windows CE</li> <li>Runs under operating system</li> <li>Windows CE</li> <li>Windows Vista</li> <li>Windows XP</li> <li>Windows 7</li> <li>Windows 8</li> <li>Windows 10</li> <li>Linux</li> <li>other</li> <li>Mechanics/material</li> <li>Enclosure material (front)</li> </ul>	Yes
Windows CE  Runs under operating system  Windows CE  Windows Vista  Windows XP  Windows 7  Windows 8  Windows 10  Linux  other  Mechanics/material  Enclosure material (front)  Plastic	Yes
Windows CE  Runs under operating system  Windows CE  Windows Vista  Windows XP  Windows 7  Windows 8  Windows 10  Linux  other  Mechanics/material  Enclosure material (front)  Plastic  Enclosure color (front)	Yes
Windows CE  Runs under operating system  Windows CE  Windows Vista  Windows XP  Windows 7  Windows 8  Windows 10  Linux  other  Mechanics/material  Enclosure material (front)  Plastic  Enclosure color (front)  Service life	Yes Yes Yes Yes Yes Yes Yes Yes No Yes; Card must not be formatted!  Yes; Gold contacts RAL 6034 (color deviation possible)
Windows CE  Runs under operating system  Windows CE  Windows Vista  Windows XP  Windows 7  Windows 8  Windows 10  Linux  other  Mechanics/material  Enclosure material (front)  Plastic  Enclosure color (front)  Service life  Number of operating cycles, keys	Yes Yes Yes Yes Yes Yes Yes Yes No Yes; Card must not be formatted!  Yes; Gold contacts RAL 6034 (color deviation possible)
Windows CE  Runs under operating system  Windows CE  Windows Vista  Windows XP  Windows 7  Windows 8  Windows 10  Linux  other  Mechanics/material  Enclosure material (front)  Plastic  Enclosure color (front)  Service life  Number of operating cycles, keys  Dimensions	Yes Yes Yes Yes Yes Yes Yes Yes Yes No Yes; Card must not be formatted!  Yes; Gold contacts RAL 6034 (color deviation possible)  10; Min. data storage without loss (in years)
Windows CE  Runs under operating system  Windows CE  Windows Vista  Windows XP  Windows 7  Windows 8  Windows 10  Linux  other  Mechanics/material  Enclosure material (front)  Plastic  Enclosure color (front)  Service life  Number of operating cycles, keys  Dimensions  Width	Yes Yes Yes Yes Yes Yes Yes Yes No Yes; Card must not be formatted!  Yes; Gold contacts RAL 6034 (color deviation possible)  10; Min. data storage without loss (in years)
Windows CE  Runs under operating system  Windows CE  Windows Vista  Windows XP  Windows 7  Windows 8  Windows 10  Linux  other  Mechanics/material  Enclosure material (front)  Plastic  Enclosure color (front)  Service life  Number of operating cycles, keys  Dimensions  Width  Height	Yes Yes Yes Yes Yes Yes Yes No Yes; Card must not be formatted!  Yes; Gold contacts RAL 6034 (color deviation possible)  10; Min. data storage without loss (in years)  24 mm 32 mm
Windows CE  Runs under operating system  Windows CE  Windows Vista  Windows XP  Windows 7  Windows 8  Windows 10  Linux  other  Mechanics/material  Enclosure material (front)  Plastic  Enclosure color (front)  Service life  Number of operating cycles, keys  Dimensions  Width  Height  Thickness  Weights	Yes Yes Yes Yes Yes Yes Yes No Yes; Card must not be formatted!  Yes; Gold contacts RAL 6034 (color deviation possible)  10; Min. data storage without loss (in years)  24 mm 32 mm 2.1 mm
Windows CE  Runs under operating system  Windows CE  Windows Vista  Windows XP  Windows 7  Windows 8  Windows 10  Linux  other  Mechanics/material  Enclosure material (front)  Plastic  Enclosure color (front)  Service life  Number of operating cycles, keys  Dimensions  Width  Height  Thickness	Yes Yes Yes Yes Yes Yes Yes No Yes; Card must not be formatted!  Yes; Gold contacts RAL 6034 (color deviation possible)  10; Min. data storage without loss (in years)  24 mm 32 mm
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<ul> <li>Windows CE</li> <li>Runs under operating system</li> <li>Windows CE</li> <li>Windows Vista</li> <li>Windows XP</li> <li>Windows 7</li> <li>Windows 8</li> <li>Windows 10</li> <li>Linux</li> <li>other</li> <li>Mechanics/material</li> <li>Enclosure material (front)</li> <li>Plastic</li> <li>Enclosure color (front)</li> <li>Service life</li> <li>Number of operating cycles, keys</li> <li>Dimensions</li> <li>Width</li> <li>Height</li> <li>Thickness</li> <li>Weights</li> <li>Weight (without packaging)</li> <li>Scope of supply</li> <li>Delivery quantity in pieces</li> </ul>	Yes Yes Yes Yes Yes Yes Yes No Yes; Card must not be formatted!  Yes; Gold contacts RAL 6034 (color deviation possible)  10; Min. data storage without loss (in years)  24 mm 32 mm 2.1 mm
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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
Note:	Not suitable for MP177, MP277, Mobile Panel 277, OP77, TP/OP177, TP/OP277 and Mobile Panel 177
Usable in the following products	
<ul><li>Product 2</li></ul>	6AV2124-1*
<ul><li>Product 3</li></ul>	6AV2124-2DC01-0AX0
<ul><li>Product 4</li></ul>	6AV2125-2G*
<ul><li>Product 5</li></ul>	6AV2125-2J*
<ul><li>Product 6</li></ul>	6AV6644*
last modified:	1/15/2021 🖸