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Data sheet 6ES7648-2BF10-0XK1

SIMATIC CFast memory card, 30 GB, for IPCs and Open Controller with corresponding slot Further information, quantity and content: See technical data



General information	
Product type designation	CFast memory card
Control elements	
Frame size/design	
● Standard	Yes; Serial ATA
● 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
Power	
Active power input, typ.	1.3 W; Inactive 0.4 W
Memory	
Type of memory	CFast Type I
Design	Multi-level cell (MLC)
Memory size	30 Gbyte; 1 year (data retention)
Speed class	Write speed: up to 45 MBps (UDMA6), read speed: up to 200 MBps (UDMA6)
Write cycles MLC flash	8.8; Terabytes, industrial quality
Standards, approvals, certificates	
CE mark	Yes
EAC (formerly Gost-R)	Yes
RoHS conformity	Yes
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 1	No
● IECEx Zone 11	No
● 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 1	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.
● cULus Class II 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.

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● FM Class II 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.
● Korean Register of Shipping (KRS)	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.
Ambient conditions	
Suited for indoor use	Yes; Always comply with the operating instructions of the target device.
Suited for outdoor use	No
Ambient temperature during operation	
● min.	-40 °C; Any mounting angle
● max.	85 °C; Any mounting angle
Ambient temperature during storage/transportation	
● min.	-50 °C
● max.	100 °C
Relative humidity	
● Operation, max.	85 %
● Condensation permissible	No
Operating systems	
Runs under operating system	
● Windows CE	No
● Windows Vista	Yes
● Windows XP	No
● Windows 7	Yes
● Windows 8	Yes
● Windows 10	Yes
● Linux	Yes
Accessories	
Function description	fixed mode, multiple partitions possible
Mechanics/material	
Enclosure material (front)	
● Plastic	Yes
Dimensions	
Width	42.8 mm
Height	36.4 mm
Thickness	3.6 mm
Weights	
Weight without packaging	10 g
Weight incl. packaging	20 g
Scope of supply	
Delivery quantity in pieces	1
Other	
Merchandise	No
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	For SIMATIC HMI devices and IPCs with the appropriate slot
Note:	bootable, real-time capable, error correction, wear leveling, power loss protection and diagnostics-capable

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