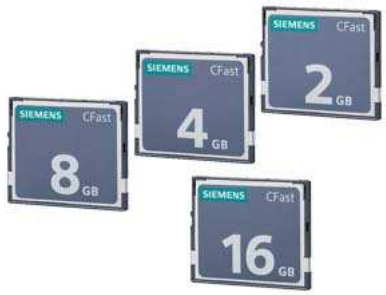
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Data sheet 6ES7648-2BF10-0XK1

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
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	3.3 V; ±5 %
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.
● 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	

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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
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 (with packaging)	20 g
Other	
Merchandise	No
Manufacturer name	SIEMENS AG
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

last modified: 3/12/2021

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