

# XL | CF 4.1 | CF Card

SMART'S XL CF Cards offer reliable, high performance in an industry standard CompactFlash<sup>®</sup> (CF) form factor. The industrial-grade XL CF Card products specifically support OEM markets of networking, telecommunication and data communication, embedded computing, medical, and industrial applications. SMART has designed their CF Cards using Single-Level Cell (SLC) Flash technology for enhanced data integrity and life time expectations in critical embedded applications.

SMART'S CF Card product line supports Self-Monitoring Analysis and Reporting Technology (S.M.A.R.T.), which is designed to reduce field failures and unscheduled service maintenance. S.M.A.R.T. enables a reliable monitoring application that efficiently supports CF Cards in the field and guarantees 24/7 service availability.

### Features & Benefits

- Highly Reliable SLC NAND Flash Technology
- Static and Dynamic Wear-Leveling
- Field Upgradeable Firmware
- RoHS-6 Compliant
- Self-Monitoring Analysis and Reporting Technology (S.M.A.R.T.) Support



### Applications

- Communications
- Defense
- Gaming
- Industrial Control Equipment
- Networking
- Printers

## Product Family Overview

Form Factor	Capacity	Sequential Performance
CF 4.1 CF Card	128MB to 8GB	Up to 30MB/s Read Up to 12MB/s Write

# Specifications

	XL   CF 4.1   CF Card		
NAND Type	SLC		
Performance			
Sequential Read (maximum)	Up to 30MB/s		
Sequential Write (maximum)	Up to 12MB/s		
Reliability			
Data Reliability	< 1 Non-Recoverable Error in 10 <sup>14</sup> bits read		
Data Retention	10 years >90% life remaining 1 year at the end of life		
Endurance	TBW up to 3TB per 1GB capacity		
Power			
VCC	5.0V+10%		
	3.3V+5%		
Read	< 200mA		
Write	< 200mA		
ldle	< 4mA		
Environmental			
Shock (operational)	50G @ 11ms		
Vibration	15G peak to peak		
Operating Temperature	Commercial: 0°C to +70°C		
	Industrial: -40°C to +85°C		
Storage Temperature	-55°C to +85°C		
Humidity	5% to 95%		
Physical			
Length	36.4mm		
Width	42.8mm		
Thickness	3.3mm		

## **Ordering Information**

Part Number	Density	
XL   CF 4.1   CF Card Commercial Operating Temperature	(0°C to +70°C)	
SP9FD08GH3BACS02	8GB	
SP9FD04GH3BACS02	4GB	
SP9FD02GH3B8CS02	2GB	
SP9FD02GH3BACS02	2GB	
SP9FD01GH3B4CS02	1GB	
SP9FD01GH3B8CS02	1GB	
SP9FD512H3B2CS02	512MB	
SP9FD512H3B4CS02	512MB	
SP9FD256H3B1CS02	256MB	
SP9FD256H3B2CS02	256MB	
SP9FD128H3B1CS02	128MB	
XL   CF 4.1   CF Card		
Industrial Operating Temperature (-40°C to +85°C)		
SP9FD08GH3BAIS02	8GB	
SP9FD04GH3BAIS02	4GB	
SP9FD02GH3B8IS02	2GB	
SP9FD02GH3BAIS02	2GB	
SP9FD01GH3B4IS02	1GB	
SP9FD01GH3B8IS02	1GB	
SP9FD512H3B2IS02	512MB	
SP9FD512H3B4IS02	512MB	
SP9FD256H3B1IS02	256MB	
SP9FD256H3B2IS02	256MB	
SP9FD128H3B1IS02	128MB	



For more information, please visit: www.smartm.com

\*Product images are for promotional purposes only. Labels may not be representative of the actual product.

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