DuraFlash™

XL+ | CF 5.0 | CF Card

SMART's DuraFlash XL+ CF Cards offer reliable, high performance in an industry standard CompactFlash® (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

Capacity	Sequential Performance
XL+ | CF 5.0 | CF Card	
512MB to 64GB	Up to 55MB/s Read; Up to 27MB/s Write

Specifications

	XL⁺	CF 5.0	CF Card
NAND Type	SLC
Performance	
Sequential Read (maximum)	Up to 55MB/s
Sequential Write (maximum)	Up to 27MB/s
Reliability	
Data Reliability	< 1 Non-Recoverable Error in 10^{14} 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
Idle	< 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 5.0	CF Card** **Commercial Operating Temperature (0°C to +70°C)**	
SG9CF64GHYDD	64GB
SG9CF32GHYDD	32GB
SG9CF16GHYDC	16GB
SG9CF8GHYDB	8GB
SG9CF4GHYDA	4GB
SG9CF2GHYD9	2GB
SG9CF1GHYD4	1GB
SG9CF512HYD2	512MB
**XL⁺	CF 5.0	CF Card** **Industrial Operating Temperature (-40°C to +85°C)**	
SG9CF64GHYDDI	64GB
SG9CF32GHYDDI	32GB
SG9CF16GHYDCI	16GB
SG9CF8GHYDBI	8GB
SG9CF4GHYDAI	4GB
SG9CF2GHYD9I	2GB
SG9CF1GHYD4I	1GB
SG9CF512HYD2I	512MB

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

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SMART® Modular Technologies

Headquarters/North America:
T: (+1) 800-956-7627 • T: (+1) 510-623-1231
F: (+1) 510-623-1434 • E: info@smartm.com

Latin America:
T: (+55) 11 4417-7200 • E: sales.br@smartm.com

Asia/Pacific:
T: (+65) 6678-7670 • E: sales.asia@smartm.com

EMEA:
T: (+44) 0 7826-064-745 • E: sales.euro@smartm.com

Customer Service:
T: (+1) 510-623-1231 • E: customers@smartm.com