

CF Card XL & XL+

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SMART Modular Technologies' CF Card XL and XL+ products offer reliable, high performance in an industry standard CompactFlash® (CF) form factor. The industrial-grade CF Card XL and XL+ products specifically support the OEM markets of networking, telecommunication and data communication, embedded computing, medical, and industrial applications.

Available in capacities from 512MB to 64GB, SMART's CF Card offers an advanced static wear leveling algorithm for extending product lifespan in the most demanding OEM applications. Additionally, SMART has designed its product using single-level cell (SLC). SLC NAND Flash technology is used for the enhanced data integrity and life time expectation in critical embedded applications.

The entire CF Card XL and XL+ Flash 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. By providing an accurate forecast of the expected lifespan, S.M.A.R.T. enables a reliable monitoring application that efficiently supports the CF Card Flash product 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

Product Family Overview

	Capacity	Performance Sequential
CF Card XL		
50-Pin	128MB to 8GB	R/W up to 30/12 MB/s
CF Card XL+		
50-Pin	512MB to 64GB	R/W up to 55/27 MB/s



Applications

- Gaming
- Communications
- Defense
- Industrial control equipment
- Networking
- Printers

Specifications

	CF Card XL	CF Card XL+
Performance		
Read (maximum)	up to 30MB/s	up to 55MB/s
Write (maximum)	up to 12MB/s	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	CF Card XL: TBW = 5 Tbytes per 1GB capacity CF Card XL+: TBW = 3 Tbytes per 1GB capacity	
Power		
VCC 5.0V (+10%)	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	
Operating Temperature - Industrial	-40°C to +85°C	
Storage temperature	-55°C to +85°C	
Humidity	5% to 95%	
Physical		
Length	1.433 in. (36.40 mm.)	
Width	1.685 in. (42.80 mm.)	
Thickness	0.130 in. (3.30 mm.)	
Weight	0.36 oz. (10.2 gm)	

Contact information

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