



## DuraFlash™

# H9 | CF 6.1 | CF Card

SMART's DuraFlash H9 CF Cards offer reliable, high performance in an industry standard CompactFlash® (CF) form factor. The industrial-grade H9 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
<b>H9   CF 6.1   CF Card</b>	
64MB to 64GB	Up to 103MB/s Read; Up to 73MB/s Write

## Specifications

H9   CF 6.1   CF Card	
NAND Type	SLC
<b>Performance</b>	
Sequential Read (maximum)	Up to 103MB/s
Sequential Write (maximum)	Up to 73MB/s
<b>Reliability</b>	
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 5TB per 1GB capacity
<b>Power</b>	
VCC	5.0V+10% 3.3V+5%
Read	< 200mA
Write	< 200mA
Idle	< 4mA
<b>Environmental</b>	
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%
<b>Physical</b>	
Length	36.4mm
Width	42.8mm
Thickness	3.3mm

## Ordering Information

Part Number	Density
<b>H9   CF 6.1   CF Card</b>	
<b>Commercial Operating Temperature (0°C to +70°C)</b>	
SP9FD64GH9UES01	64GB
SP9FD32GH9UDS01	32GB
SP9FD16GH9UCS01	16GB
SP9FD08GH9UBS01	8GB
SP9FD04GH9UAS01	4GB
SP9FD02GH9US01	2GB
SP9FD01GH9U4S01	1GB
SP9FD512H9U2S01	512MB
SP9FD256H9U1S01	256MB
SP9FD128H9U1S01	128MB
SP9FD064H9U1S01	64MB
<b>H9   CF 6.1   CF Card</b>	
<b>Industrial Operating Temperature (-40°C to +85°C)</b>	
SP9FD64GH9UEIS01	64GB
SP9FD32GH9UDIS01	32GB
SP9FD16GH9UCIS01	16GB
SP9FD08GH9UBIS01	8GB
SP9FD04GH9UAIS01	4GB
SP9FD02GH9UIS01	2GB
SP9FD01GH9U4IS01	1GB
SP9FD512H9U2IS01	512MB
SP9FD256H9U1IS01	256MB
SP9FD128H9U1IS01	128MB
SP9FD064H9U1IS01	64MB



For more information, please visit: [www.smartm.com](http://www.smartm.com)

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