

# CF Card

Innodisk's Industrial CompactFlash Memory Card (iCF) complies with the PCMCIA\* ATA standard. Designed to replace traditional rotating disk drives, Innodisk iCFs are embedded solid-state data storage systems that are designed for mobile computing and the industrial work place.



Model Name	iCF 1IE	iCF 9000	iCF 4000	InnoLite iCF
Key Features	1. Cost-effective industrial flash	1. High sustained read and write speed 2. Power cycling failure prevention	1. High compatibility & reliability	1. Mainstream MLC CF card
Interface	iSLC	PATA	PATA	PATA
Connector	50pin CF connector	50pin CF connector	50pin CF connector	50pin CF connector
Flash Type	iSLC	SLC	SLC	MLC
Capacity	2GB-32GB	1GB-64GB	1GB-32GB	4GB-128GB
Max. Channels	2	4	2	2
Sequential R/W (MB/sec, max.)	40/18	100/95	40/25	40/15
Max. Power consumption	0.75W(5V x 150mA)/ 0.5W(3.3V x 150mA)	1.05W(5V x 210mA)/ 0.69W(3.3V x 210mA)	0.75W(5V x 150mA)/ 0.5W(3.3V x 150mA)	0.75W(5V x 150mA)/ 0.5W(3.3V x 150mA)
H/W Write Protect	Y	Y	Y	Y
ATA Security	Y	Y	Y	Y
S.M.A.R.T.	Y	Y	Y	Y
Dimension (WxLxH/mm)	42.8 x 36.4 x 3.3	42.8 x 36.4 x 3.3	42.8 x 36.4 x 3.3	42.8 x 36.4 x 3.3
Environment	Vibration: 20G@7-2000Hz Shock: 1500G@0.5ms Storage Temperature: -55°C ~ +95°C			MTBF: >3 million hours
Standard OP(0°C~+70°C)	DC1M-XXXD511C***	DC1M-XXXD71AC***	DC1M-XXXD31C***	DC1M-XXXD51AC***
Wide temp. OP (-40°C~+85°C)		DC1M-XXXD71AW***	DC1M-XXXD31W***	DC1M-XXXD51AW***
Notes		PIO & MwdMA mode 0-4 UltraDMA mode 0-7	PIO & MwdMA mode 0-4 UltraDMA mode 0-4	PIO & MwdMA mode 0-4 UltraDMA mode 0-4
Notes	xxx = density (02GB=02G, 04GB=04G, 08GB=08G, 16GB=16G, 32GB=32G, 64GB=64G, 128GB=A28) ***= flash configuration (internal control code)			

# EDC

The Innodisk Embedded Disk Card (EDC) complies with PCMCIA\* ATA standards and fits into all platforms with an IDE connector. The Innodisk Embedded Disk Card comes in capacities ranging from 128MB to 32GB and is available in 40-pin and 44-pin connector packages.



Model Name	EDC 4000 Vertical Type	EDC 4000 Horizontal Type	InnoLite EDC
Key Features	1. Plastic housing, dust prevention 2. High compatibility & reliability	1. High compatibility & reliability 2. Supported mounting hole	1. Mainstream MLC EDC
Connector	40/44 pin	40/44 pin	40/44 pin
Interface	PATA	PATA	PATA
Flash Type	SLC	SLC	MLC
Capacity	128MB-16GB	128MB-32GB	4GB-32GB
Max. Channels	2	2	2
Sequential R/W (MB/sec, max.)	40/25	40/25	40/15
Max. Power consumption	0.75W(5V x 150mA)/0.5W(3.3V x 150mA)	0.75W(5V x 150mA)/0.5W(3.3V x 150mA)	0.75W(5V x 150mA)/0.5W(3.3V x 150mA)
H/W Write Protect	Y	Y	Y
ATA Security	Y	Y	Y
S.M.A.R.T.	Y	Y	Y
Dimension (WxLxH/mm)	40 pin: 60.2 x 27.3 x 6.4 44 pin: 50.3 x 27.3 x 5.8	40 pin (A,B type): 55 x 32.4 x 12.9 40 pin (C,D type): 55 x 32.4 x 14.6 40 pin (E,F type): 55 x 32.4 x 18.3 44 pin (A,B type): 55 x 32.4 x 6.7 44 pin (C,D type): 55 x 32.4 x 9.6 44 pin (E, F type): 55 x 32.4 x 12.9	40 pin: 60.2 x 27.3 x 6.4 44 pin: 50.3 x 27.3 x 5.8
Environment	Vibration: 20G@7-2000Hz Shock: 1500G@0.5ms Storage Temperature: -55°C ~ +95°C		
Standard OP(0°C~+70°C)	DE0H-XXXD31C*** DE4H-XXXD31C***	DE0P%-XXXD31C*** DE4P%-XXXD31C***	DE0H-XXXD51AC*** DE4H-XXXD51AC***
Wide temp. OP (-40°C~+85°C)	DE0H-XXXD31W*** DE4H-XXXD31W***	DE0P%-XXXD31W*** DE4P%-XXXD31W***	DE0H-XXXD51AW*** DE4H-XXXD51AW***
Notes	xxx = density (02GB=02G, 04GB=04G, 08GB=08G, 16GB=16G, 32GB=32G, 64GB=64G, 128GB=A28) ***= flash configuration (internal control code) % = Horizontal type(A, B, C, D, E, F)		

# SD/micro SD

Innodisk SD and microSD cards are single-level flash devices built for rugged applications in the embedded fields. As an industrial-grade SD/microSD card, these cards deliver outstanding performance of up to 20MB per second as well as excellent endurance and reliability, especially compared to other cards used in the mobile market. The Innodisk SD and microSD cards are compatible with SD 2.0 standards and support SDHC Class 10. They also feature SMART technology, which monitors the reliability of these SD cards.



Model Name	Industrial SD Card	Industrial microSD Card
Key Features	1. i-S.M.A.R.T utility for health monitor 2. Enhanced power cycling	1. i-S.M.A.R.T utility for health monitor 2. Enhanced power cycling
Interface	SD 1.01/2.00	SD 1.01/2.00
Flash Type	SLC/MLC	SLC
Capacity	SLC: 128MB~16GB MLC: 4GB~32GB	1GB~8GB
Max. Channels	1	1
Sequential R/W (MB/sec, max.)	20/16	20/16
Max. Power consumption	0.2W (3.3V x 60mA)	0.17W (3.3V x 50mA)
H/W Write Protect	Y	N
S.M.A.R.T.	Y	Y
Dimension (WxLxH/mm)	24.0 x 32.0 x 2.1	11.0 x 15.0 x 1.0
Environment	Vibration: 5G @7~2000Hz Shock: 50G @ 0.5ms, Storage Temperature: -55°C ~ +95°C MTBF: >3 million hours	
Standard OP (0°C~+70°C)	DS2A-XXXI81C***	DS2M-XXXI81AC***
Wide temp. OP(-40°C~+85°C)	DS2A-XXXI81W***	DS2M-XXXI81AW***
Notes	xxx = density (02GB=02G, 04GB=04G, 08GB=08G) *** = flash configuration (internal control code)	

## Features

- Compatible with SD 1.x/2.0 specification
- Excellent data transfer rate
- Support wear-leveling
- Built-in ECC function
- Support Content Protection for Recordable Media (CPRM)
- Support auto-standby, power-off and sleep mode
- Support S.M.A.R.T function

Item	Industrial SD	Consumer SD
Flash Type	SLC / MLC	MLC / TLC
Operational Temperature	-40°C~85°C	-25°C~85°C
Product Longevity Supply (fixed BOM)	Yes	
Sequential R/W Performance (MB/s)	20 / 16	18 / 13
Enhanced power cycling	Over 2,000 cycles	
S.M.A.R.T	Supported	



## Download our iSMART to Monitor the health of storage

iSMART is a powerful, easy-to-use solid-state drive (SSD) and hard disk drive (HDD) health monitoring tool. It allows system integrators to track important disk information, such as temperature, storage space, bad blocks, lifespan, and firmware, all under one platform. With iSMART, system integrators can better manage disk usage and know exactly when to replace a disk, before the end of its life cycle.



Each installed disk can be shown on the DISK Info page



Performance/Alert page can show any installed disk's R/W performance



The Life span graph helps user understand the expiry date of Innodisk own's products



Useful information about the system is displayed on the SYSTEM INFO page.