Embedded Flash Storage Device

iCF 4000 Series

■ iCF 4000 Series supports PIO/MwDMA/UltraDMA modes with IDE/ATA interface and enhances the data transfer rate up to the performace of Read/Write: 40MB/20MB per second, which speeds up the booting process and upgrades the working environment efficiently.

■ Static Wear-Leveling :

The Static Wear-Leveling algorithm evenly distributes the data over the entire disk and greatly enables to extend product lifespan. The Static Wear-leveling could prolong the programmed endurance of flash chips, comparing with dynamic wear leveling.

■ Power Cycling :

A strong Power Cycling management enhances data integrity and reliability. The new 4000 series passes complete and continuous power cycling tests more than 3000 times to achieve the high standard requirement.

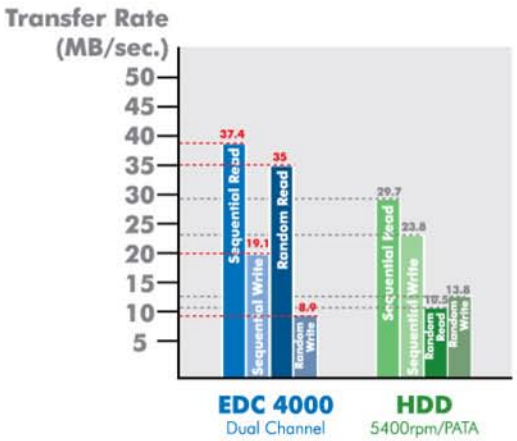
Target Device	iCF4000 1GB
OS	Embedded Windows XP
Mother Board	ASUS A7N8X
Power Failure	3000

■ ISP (In System Programming) Architecture :

The ISP architecture greatly enables InnoDisk iCF 4000 series to achieve upgradeable firmware for new application requirements.

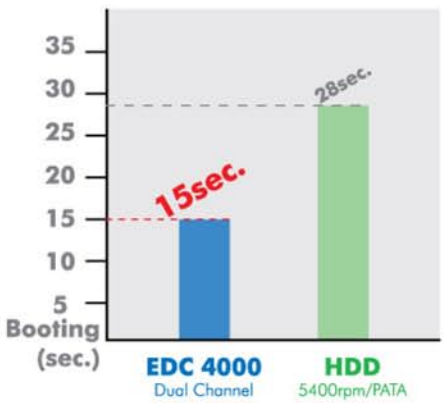
■ Comparison Chart : 4000 Series & HDD

Transfer Rate



Booting Time

(50% of improvement in booting time)



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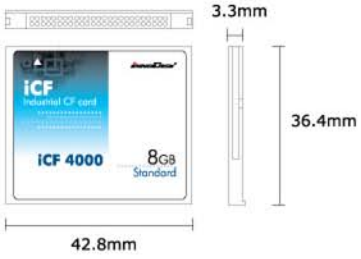
Embedded Flash Storage Device

iCF 4000 Series

iCF 4000 Series Mechanical Drawing

iCF



EDC&iCF 4000 Series Specification

-40°C~+85°C Wide Temp. Available

Item	iCF 4000
Capacities	128MB~16GB
IDE Transfer Mode	PIO Mode 0-6 MwDMA Mode 0-4 UltraDMA Mode 0-4 *Comply with CF 3.0 Standard
Interface	50pin CompactFlash
Drive Config.	N/A
Protocol Mode	PCMCIA v2.1 and PC Card CF 3.0 standard compatible
Access Mode	Memory mode, I/O Mode, Ture-IDE Mode
Data Transfer Rate	128MB~2GB(Single): Read-20MB/sec. (max.) Write-10MB/sec. (max.) 1GB~16GB(Dual): Read-40MB/sec. (max.) Write-20MB/sec. (max.)
Burst Transfer Rate	66.6MB/sec.
Environmental Specification	
Operation Temp.	0℃~+70℃(Standard) -40℃~+85℃(Industrial)
Storage Temp.	-55℃~+95℃
Humidity	10%~95% non-condensing
Vibration(Operation)	5G(7~2000Hz)
Shock	50G/10ms
System Reliability	
ECC technology	High Reliability based on the internal ECC function
MTBF	>3,000,000 hours
R/W Endurance	2,000,000 times
Wear-leveling	Support
Power Requirement	
DC input voltage	+3.3V~+5V single power supply operation
Power mode	Auto stand-by and sleep mode
Power consumption	150mA (max.)
Physical Specification	
Enclosure Material	CF card plastic frame with metal cover
Dimension	42.8 x 36.4 x 3.3 mm(W x L xH)

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