

# Industrial Flash Module Series

## The Best Flash Storage Solutions-iCF 1000+ & iFM/IFP 4000+/ 4400+

### Points

- Noiseless
- High reliability-Power Cycling
- ISP (In System Programming)upgrade
- Better shock durability
- Low power consumption
- To operate under high temperature and low temperature



### ISP (In System Programming) Architecture

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

### Power Cycling

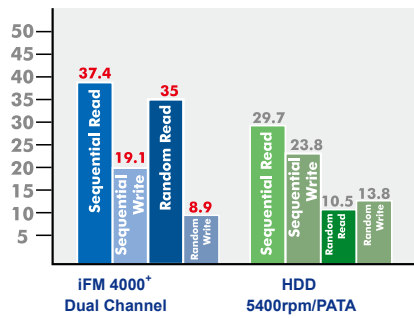
A strong Power Cycling management enhances data integrity and reliability. The new 4000 series passes complete and non-stopping power cycling tests more than 3000 times to achieve the high standard requirement.

Target Device	EDC 4000 40pin 2GB, Dual
OS	Embedded Windows XP
Motherboard	ASUS A7N8X
Power Failure	3,000
Test Result	pass



### Comparison Chart : iFM 4000+ & HDD

#### Performance testing



#### Performance

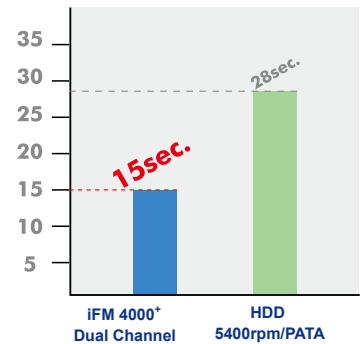
Data Transfer Rate	iFM 4000+	HDD
Sequential Read	37.4MB/sec.	29.7MB/sec.
Sequential Write	19.1MB/sec.	23.8MB/sec.
Random Read	35.0MB/sec.	10.5MB/sec.
Random Write	8.9MB/sec.	13.5MB/sec.

- Sequential Access: the data can only be read and written sequentially, starting from the beginning of the file.
- Random Access: the data can be read and written anywhere in the file.
- Dual Channel: 2pcs NAND Flash IC with dual channel data access of faster speed

#### Booting time

Item	iFM 4000+	HDD
Times	15sec.	28 sec.

#### Booting time testing



#### Testing environment:

OS	Windows XP SP2	Motherboard	Gigabyte 8S661FXMP-RZ	RAM	1GB
CPU	Celeron® 2.66GHz	Chipset	Sis964	HDD	Samsung 40GB 5400rpm PATA

## Ordering Information

### Industrial Compact Flash Card

Part No.	Interface	Capacity
ICF-1000IPX-XXXXX	CF/50pin	128MB~16GB
ICF-1000WPX-XXXXX	CF/50pin	128MB~16GB

### Industrial IDE Flash Module

Part No.	Interface	Capacity
IFM-4000IPX-XXXXX	Vertical IDE 40pin	128MB~8GB
IFM-4000WPX-XXXXX	Vertical IDE 40pin	128MB~8GB
IFM-4400IPX-XXXXX	Vertical IDE 44pin	128MB~8GB
IFM-4400WPX-XXXXX	Vertical IDE 44pin	128MB~8GB
IFP-2000IPX-XXXXXX	Horizontal IDE 44pin	128MB~8GB
IFP-2000WPX-XXXXX	Horizontal IDE 44pin	128MB~8GB

### Industrial SATA Flash Card

Part No.	Interface	Capacity
IFM-3000IS-XXXXX	Vertical SATA I 7pin	128MB~8GB
IFM-3000WS-XXXXX	Vertical SATA I 7pin	128MB~8GB
IFM-3000ILVS-XXXXX	Vertical SATA I 7pin	128MB~8GB
IFM-3000WLVS-XXXXX	Vertical SATA I 7pin	128MB~8GB
IFM-3000ILPS-XXXXX	Horizontal SATA I 7pin	128MB~8GB
IFM-3000WLPS-XXXXX	Horizontal SATA I 7pin	128MB~8GB

X= S-Single Channel / D-Dual Channel  
 XXXXX=Capacity-128MB/256MB/512MB/1GB/2GB/4GB/8GB/16GB/32GB/64GB/128GB  
 I= Standard Grade Operation Temp.: 0°C~70°C  
 W=Industrial Grade Operation Temp.: -40°C~85°C

1 Industrial Computing Solutions

2 Embedded Computing Solutions

3 RISC-Based Embedded Solutions

4 Industrial Data Collector/Server Solutions

5 Industrial Data Collection

6 I/O Communication Solutions

7 Panel Solutions

8 Power Supply/Network Communication/Peripherals