

# ACC-IDEFM Series

## DiskOnChip IDE Pro Series



### Specifications

#### IDE Mode

- PIO modes 0-4

#### Performance

- Host Data Transfer Rate (Max.): 16.6 MB/sec.

#### Operating Temperature

- Temperature Range: 0° C to +70° C

#### Power Requirements

- Single Power Supply: 5 V ( $\pm 10\%$ )
- Current
  - Active Mode (Max.): 55 mA
  - Sleep/Idle Mode (Max.): 0.18 mA

#### Environmental Conditions

- Storage Temperature: -50° C to +150° C

#### Capacity and Packaging

- Available in 16 to 128 MB capacity
- 40-pin or 44-pin IDE connector

#### System Compatibility

- Devices that support the ATA-4 attachment, (without DMA support) for disk drives standard

#### Dimensions

- 40-pin Connector (mm): 56.3 x 30.6 x 6.0 (L x W x H)
- 44-pin Connector (mm): 53.0 x 31.2 x 6.0 (L x W x H)

### Ordering information

- ACC-IDEFMyy-xxxx: DiskOnChip IDE Pro  
(yy: 40 or 44-pin package; xxx: 16, 32, 64, 128 MB;  
t: Extended Temperature -40° C to +85° C)

# ACC-IFD Series

## High Performance IDE Flash Disks



### Specifications

#### Capacity

- Unformatted 64 to 4096 Mbyte

#### ATA-III Interface

- Supports Industry Standard ATA-III/ANSI X3T10/2008D
- Support DMA 0-2 and PIO 0-4 transfer modes

#### Security Erase

- Entire media erase time 5 sec. (max.)

#### Reliability

- MTBF 5,880,000 hours per 128 MB @ British Telecom model GB 25C
- Data reliability Built in EDC/ECC
- Built in test Power-up self-test

#### Endurance

- Write/Erase: 1 million cycles to 250,000 cycles
- Read: Unlimited

#### Performance

- Access Time: < 0.1 ms
- Track to Track Seek Time: < 0.1 ms
- Burst Read/Write Rate: 16.7 Mbytes/sec
- Sustained Read/Write Rate: 3.4 Mbytes/sec

#### Power Requirements

- Input Voltage: 5 Vdc +5%

#### Power Consumption

- Operating: 2.3 W to 2.75 W capacity dependant
- Stand-by: 1W
- Power-Down: 0.6W

#### Storage Temperature

- -40°C ~ +85°C

#### Humidity

- 5 to 95% non-condensing

#### Shock

- Operating & Non - operating: Half Sine, 50G, 11 ms; Half Sine, 1500G, 0.5 ms  
Per MIL-STD-810C, method 516.2

#### Vibration

- Operating & Non - operating: 16.4G RMS  
Per MIL-STD-810E, method 514.4-8 (Random, 5-2000 Hz)

#### Dimension

- 100.2 mm (L) x 69.8 mm (W) x 17.0 mm (H) or 12.0 mm (H) or 8.0 mm (H)

#### Weight

- Max. of 0.2 Kg for 4096 MB unit

### Ordering Information

- ACC-IFD-xxxx-hh: High Performance IDE Flash Disks

	Bus	Unformatted Capacity	Thickness (mm)	Temperature Range
ACC	IFD (IDE bus)	64, 128, 192, 256, 320, 384, 448, 512, 576, 640, 704, 768, 832, 896, 960, 1024, 1088, 1152, 1216, 1280, 1408, 1536, 1664, 1792, 1920, 2048, 2176, 2304, 2432, 2560, 2816, 3072, 3328, 3584, 3840, 4096	17 (Standard)	Blank: 0°C ~ +70°C N: -25°C ~ +75°C X: -40°C ~ +85°C
		64, 128, 192, 256, 320, 384, 448, 512, 576, 640, 768, 896, 1024, 1152, 1280, 1536, 1792, 2048, 2304	12	
		64, 128, 192, 256, 384, 512, 768, 1024	8	