

Flash memory on PCB with standard 40/44 pins IDE interface, which works just like a hard driver disk but without problems of vibration & high temperature. We call it ...

## DOM- DiskOnModule™ -

### Features:

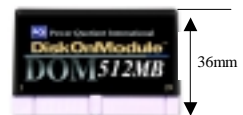
- Compact design with Module Concept.
- With standard 40/44 pins IDE connector.
- IDE hard drive disk fully compatible.
- Plug & play storage device.
- Flexible option to satisfy various compact mechanical limitation.
- Low power consumption



FDxxx-014P



FDxxx-019P



FDxxx-026P

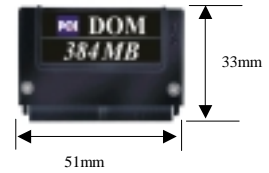
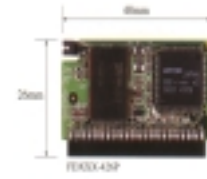
### Specifications:

- |                            |  |
|----------------------------|--|
| ■ Flash memory type        | NAND type  |
| ■ Capacities               | 40 pins 4MB up to 512MB<br>44 pins 4MB up to 384MB               |
| ■ Interfaces / Connectors: | 40 pins (2.54mm) IDE connector<br>44 pins (2.00mm) IDE connector |
| ■ Default                  | Master (Slave is optional by power connector or jumper)          |



## Performance:

- Media Transfer Rate(Write): 1.2MB/sec(typ.)
- Mdeia Transfer Rate(Read): 2.5MB/sec(typ.)
- Host Burst Date Transfer Rate: PIO Mode 2(8.3MB/sec).
- Average Data Transfer Rate: 6MB/sec(typ.)
- Average Seek Time < 0.1 ms
- Random Read Time: 0.3ms(typ.)
- Random Write Time: 9.67ms (typ.)
- Sequential Read Time: 0.3ms (typ.)
- Sequential Write Time: 9.71ms (typ.)



FDxxx-426PA



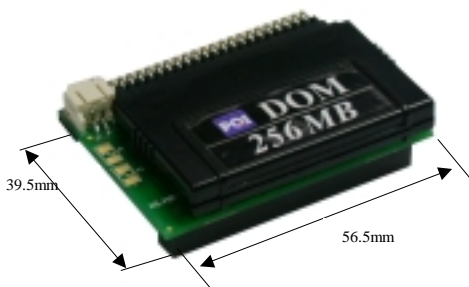
## Reliability:

- Temperature
 

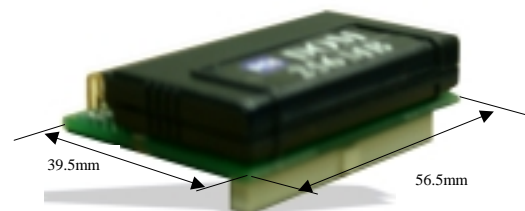
Operating	0°C	to	+70°C
Non-Operating	-20°C	to	+85°C
- MTBF: 300,000 rewrite @ 25°C
- Power Requirement
 

DC	+3.3V +/-10%
DC	+5.0V +/-10%
- Power Consumption:
 

Read	21mA(typ.)
Write	28mA(typ.)
Sleep	0.3mA(typ.)



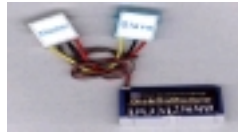
FDxxx-039LFD



FDxxx-439LFD

**Definition of Model Name:**

Model Name
FD xxx - 0 14 P
FD xxx - 0 19 P
FD xxx - 0 26 P
FD xxx - 0 19 P R
FD xxx - 0 26 P R



FDxxx-019P



FDxxx-019PR

Model Name
FD xxx - 4 26 P
FD xxx - 4 26 P A



FDxxx-426P

(without housing)



FDxxx-426PA

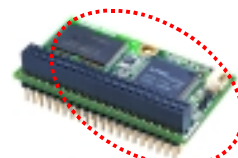
(with housing)

Model Name
FD xxx - 0 30 L F D
FD xxx - 0 30 L F M
FD xxx - 0 30 L F F
FD xxx - 0 30 L M F
FD xxx - 0 30 L M D
FD xxx - 0 30 L M F
FD xxx - 0 30 L D M
FD xxx - 0 30 L M M



FDxxx-030LFD

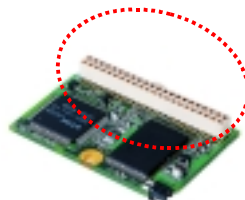
(One Female connector)



FDxxx-030LFM

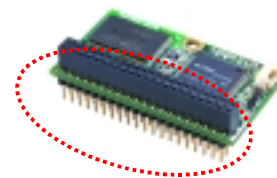
(One Female and one Male connector)

Model Name
FD xxx - 4 32 L F D
FD xxx - 4 32 L F M
FD xxx - 4 32 L F F
FD xxx - 4 32 L M F
FD xxx - 4 32 L M D
FD xxx - 4 32 L M F
FD xxx - 4 32 L D M
FD xxx - 4 32 L M M



FDxxx-432LFD

(One Female connector)



FDxxx-432LFM

(One Female and one Male)

Model Name (New Product)
FD xxx - 0 39 L F D
FD xxx - 0 39 L M D
FD xxx - 0 39 L D F
FD xxx - 0 39 L D M



Model Name (New Product)
FD xxx - 4 39 L F D
FD xxx - 4 39 L M D
FD xxx - 4 39 L D F
FD xxx - 4 39 L D M



- **FD** : Flash Disk, including DOM and 2.5" IDE Flash Disk.
- **xxx** : Various capacity from 4MB to 512MB
- **0** : 40 pins ;4: 44 pins .
- **14 / 19 / 26 / 30 / 32 / 39** : width of PCB in mm
- **P** : Plain-formed DOM .
- **L** : L-Formed DOM .
- **R** : 40pin with +5V VCC at 20 pin .
- **A** : With housing .
- **F** : Female connector .
- **M** : Male connector .
- **D** : Dummy (without connector)

**Plain-formed**



Plug-in vertically on PC Board

**L-formed**

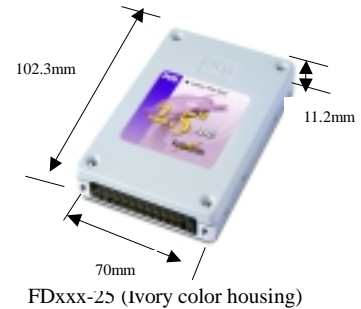


Plug-in horizontally on PC Board

## 2.5" IDE Flash Disk

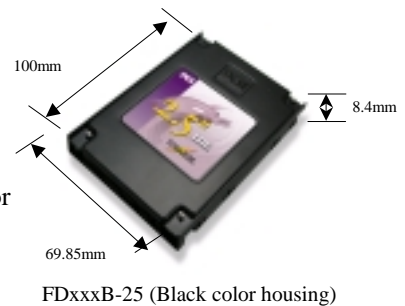
### Features:

- Fully Compatible with IDE Standard
- With standard 44 pins IDE Male connector
- IDE hard drive disk fully compatible
- Low power consumption



### Specifications:

- Flash memory type : AND type
- Capacities : 4MB up to 2GB
- Interfaces : 44 pins (2.00mm) IDE connector



### Performance:

- Media Transfer Rate (Write) : 1.9MB/sec(typ.)
- Media Transfer Rate (Read) : 2.8MB/sec(typ.)
- Host Burst Data Transfer Rate: PIO Mode 1 (5.2MB/sec).
- Average Data Transfer Rate : 1.95MB/sec(typ.)
- Average Seek Time < 0.1 ms
- Random Read Time : 0.57ms(typ.)
- Random Write Time : 3.73ms (typ.)
- Sequential Read Time : 0.57ms (typ.)
- Sequential Write Time : 3.691ms (typ.)

### Reliability:

- Temperature
 

Operating	0°C	to	+70°C
Non-Operating	-20°C	to	+100°C
- MTBF : 300,000 rewrite @ 25°C
- Power Requirement: DC +3.3V +/-10% or DC +5.0V +/-10%

**Definition of Model Name:**

Model Name			
FD	xxx	-	25
FD	xxx	-	25 B
FD	A		44 C
FD	A		04 C



FDA44C



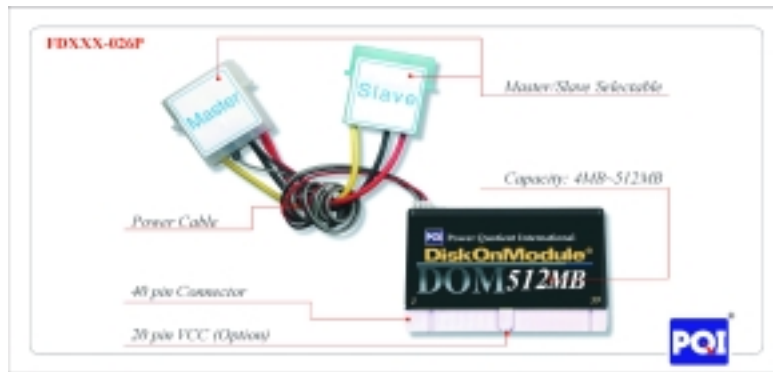
FDA04C

- **FD** : Flash Disk, including DOM and 2.5" IDE Flash Disk.
- **Xxx**: Various capacity from 4MB to 2GB .
- **25** : 2.5" IDE Flash Disk.
- **B** : Black Color Housing.
- **A** : Accessories.
- **44** : 44-pin to 44-pin.
- **04** : 40-pin to 44-pin.
- **C** : Cable.

## Q&A:

**Q1** : How we setup Master/Slave on a DOM?

**A1** : For 40-pin DOM, we set up Master/Slave via power cable connectors. There are two 3-pin connectors with power cable. The white connector is defaulted as Master; and the blue one is as Slave.



For 44-pins DOM, we set up Master/Slave via Jumper.

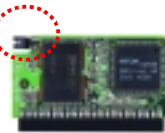
JP1 On: Master (default)

JP1 Off: Slave (Remove

the Black Hat, or the hat in other position)



FDxxx-426P



FDxxx-426PA

Master / Slave  
switch

**Q2 : For 40-pin DOM, if the IDE pin-20 with +5VCC power supply which doesn't need to use external power cable, how we setup Master/Slave?**

**A2 :** When we don't need to use the power cable for 40-pin DOM, then there is a ring plug-in on DOM as Master . If we remove the ring , it become Slave.

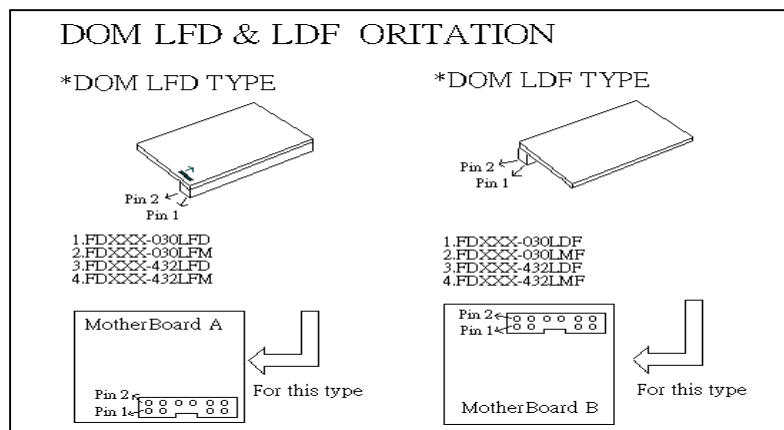
**Plug-in the ring as Master**

**Remove the ring as Slave**



**Q3 : How the user make the choice between LFD and LDF?**

**A3:**



# IC STORAGE SPECIALIST 40/44 pins IDE Flash Disk Storage Device

## 40pins Product Order Information:

IDE	40 Pins							
Form	Plain-form					L-form		
Housing	Yes					No		Yes
Part No.	FDxxx-014P	FDxxx-019P	FDxxx-026P	FDxxx-019PR	FDxxx-026PR	FDxxx-030LXX	FDxxx-030LXXR	FDxxx-039LXX
4MB	FD004-014P	FD004-19P	-	FD004-19PR	-	FD004-030LXX	FD004-030LXXR	FD004-039LXX
8MB	FD008-014P	-	-	-	-	-	-	-
16MB	FD016-014P	FD016-019P	-	FD016-019PR	-	FD016-030LXX	FD016-030LXXR	FD016-039LXX
32MB	FD032-014P	FD032-019P	-	FD032-019PR	-	FD032-030LXX	FD032-030LXXR	FD032-039LXX
48MB	-	-	FD048-026P	-	FD048-026PR	FD048-030LXX	FD048-030LXXR	FD048-039LXX
64MB	FD064-014P	FD064-019P	-	FD064-019PR	-	FD064-030LXX	FD064-030LXXR	FD064-039LXX
96MB	-	-	-	-	-	FD096-030LXX	FD096-030LXXR	FD096-039LXX
128MB	-	FD128-019P	FD128-026P	FD128-019PR	FD128-026PR	FD128-030LXX	FD128-030LXXR	FD128-039LXX
192MB	-	-	FD192-026P	-	FD192-026PR	FD192-030LXX	FD192-030LXXR	FD192-039LXX
256MB	-	FD256-019P	FD256-026P	FD256-019PR	FD256-026PR	FD256-030LXX	FD256-030LXXR	FD256-039LXX
384MB	-	-	FD384-026P	-	FD384-026PR	FD384-030LXX	FD384-030LXXR	FD384-039LXX
512MB	-	-	FD512-026P	-	-	FD512-030LXX	FD512-030LXXR	FD512-039LXX
Product	On going	On going	On going	On going	On going	On going	On going	MAR. 1 <sup>st</sup> , 2002
Status	product.	product.	product.	product.	product.	product.	product.	release.

- ◆ FDxxx-014P is one flash die bounded on PCB and the minimum Quantity order is 3,000 pcs. Please contact with PQI representative for price.



## 44pins Product Order Information:

IDE	44 pins					
Form	Plain-form		L-form		2.5" IDE Flash Disk	
Housing	No	Yes	No	Yes	Yes	
Part No.	FDxxx-426P	FDxxx-426PA	FDxxx-432LXX	FDxxx-439LXX	FDxxx-25	FDxxx-25B
<b>4MB</b>	FD004-426P	FD004-426PA	FD004-432LXX	FD004-439LXX	FD004-25	-
<b>16MB</b>	FD016-426P	FD016-426PA	FD016-432LXX	FD016-439LXX	FD016-25	-
<b>32MB</b>	FD032-426P	FD032-426PA	FD032-432LXX	FD032-439LXX	FD032-25	-
<b>48MB</b>	FD048-426P	FD048-426PA	FD048-432LXX	FD048-439LXX	FD048-25	-
<b>64MB</b>	FD064-426P	FD064-426PA	FD064-432LXX	FD064-439LXX	FD064-25	FD064-25B
<b>96MB</b>	FD096-426P	FD096-426PA	FD096-432LXX	FD096-439LXX	FD096-25	FD096-25B
<b>128MB</b>	FD128-426P	FD128-426PA	FD128-432LXX	FD128-439LXX	FD128-25	FD128-25B
<b>192MB</b>	FD192-426P	FD192-426PA	FD192-432LXX	FD192-439LXX	FD192-25	FD192-25B
<b>256MB</b>	FD256-426P	FD256-426PA	FD256-432LXX	FD256-439LXX	FD256-25	FD256-25B
<b>320MB</b>	-	-	-	-	FD320-25	FD320-25B
<b>384MB</b>	FD384-426P	FD384-426PA	FD384-432LXX	FD384-439LXX	FD384-25	FD384-25B
<b>512MB</b>	-	-	-	-	FD512-25	FD512-25B
<b>768MB</b>	-	-	-	-	FD768-25	FD768-25B
<b>1GB</b>	-	-	-	-	FD01G-25	FD01G-25B
<b>1.5GB</b>	-	-	-	-	-	FD15G-25B
<b>2GB</b>	-	-	-	-	-	FD02G-25B
<b>Product Status</b>	MAR. 1 <sup>st</sup> , 2002. Phase out..	On going product.	On going product.	MAR. 1 <sup>st</sup> , 2002. Release.	On going product.	FEB. 1 <sup>st</sup> , 2002. Release...

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