

MasterDrive EX2 Series

PATA/IDE Solid State Drive

PATA/IDE Interface with MLC Flash



The MasterDrive EX2 is an industry standard 2.5-inch SSD with a parallel ATA interface. The MasterDrive EX2 more than doubles the performance of previous generations of IDE/PATA SSDs. Featuring Read Speeds up to 80MB/sec and Write Speeds 40MB/sec.

With no moving parts the MasterDrive EX2 offers excellent reliability and greater resistance to shock and vibration. The drive is extremely lightweight and features very low active and standby power consumption.

All MasterDrive EX2 are built with MLC NAND Flash for ideal performance:price ratios and feature a 2 year factory warranty.

The MasterDrive EX2 has been extensively tested in Super Talent's performance and compatibility labs to ensure compatibility with a wide range of notebooks, desktops, and embedded systems.

Physical Specifications

Form Factor	2.5"
*Capacity	16GB - 128GB
Dimension	69.85 x 100.20 x 9.50 mm
IDE Interface	Parallel ATA
NAND Flash	MLC
Power Supply	5.0Vcc +/- 5%
Package	Complete metal housing

Endurance Specifications

Read		Unlimited
Write	16GB	8.8 yrs @ 50GB write-erase/day
	32GB	17.5 yrs @ 50GB write-erase/day
	64GB	35.1 yrs @ 50GB write-erase/day
	128GB	70.2 yrs @ 50GB write-erase/day

Reliability Specifications

MTBF	+1,000,000 hours
Data Reliability	Built-in EDC/ECC function
Data Integrity	10 years
Wear Leveling Algor.	Patent Pending
Warranty	2 years

Performance Specifications

Seq. Read	80 MB/sec (max)
Seq. Write	40 MB/sec (max)
Access Time	0.1 ms
IDE Modes	PIO Mode 6 / UDMA Mode 6

Environmental Specifications

Operating Shock	1500G
Operating Vibration	16G
Operating Temp.	0°C to +70°C

Ordering Information

16GB	FHM16GF25H
32GB	FHM32GF25H
64GB	FHM64GF25H
128GB	FHM28GF25H

■ ■ **MasterDrive EX2 Series**

PATA/IDE Solid State Drive

PATA/IDE Interface with MLC Flash

Pin Assignments

PIN	SYMBOL	PIN	SYMBOL
1	/RESET	2	GND
3	HD7	4	HD8
5	HD6	6	HD9
7	HD5	8	HD10
9	HD4	10	HD11
11	HD3	12	HD12
13	HD2	14	HD13
15	HD1	16	HD14
17	HD0	18	HD15
19	GND	20	Key
21	DMARQ	22	GND
23	/IOW	24	GND
25	/IOR	26	GND
27	WAIT	28	GSEL
29	/DMACK	30	GND
31	IRQ	32	/IOIS16
33	HA1	34	/PDIAG
35	HA0	36	HA2
37	/CS0	38	/CS1
39	/DASP	40	GND
41	V _{CC}	42	V _{CC}
43	GND	44	N/C

Revision History

May 26th, 2009

Rev-A Preliminary Product Specification Released

■ ■ MasterDrive EX2 Series

PATA/IDE Solid State Drive

PATA/IDE Interface with MLC Flash

Dimension

