

■ ■ **MasterDrive KX2 Series**
Micro SATA-II 3Gbps SSD

1.8" SATA Solid State Drive



The MasterDrive KX2 is an extreme performance 1.8" SATA-II SSD based on an advanced new controller and 64MB DRAM cache that delivers exceptionally fast sequential read and write speeds. With no moving parts, the KX2 is lightweight, uses far less power and is much more resistant to shock and vibration than a hard disk drive.

The MasterDrive KX2 is also packed with all the latest performance and reliability features. ECC, wear leveling and bad bit management algorithms improve reliability and extend the life of the drive. The KX2 is available in capacities up to 128GB.

Physical Specifications

Form Factor	1.8"
Capacity*	16GB - 128GB
Dimension	78.5 X 54.0 X 5.0 mm
SATA Interface	Micro-SATA 3Gbps
NAND Flash	MLC / SLC
Cache	64MB DRAM Cache
Power Supply	3.3V ± 10%
Package	Metal housing

Environmental Specifications

Operating Shock	1500G
Operating Vibration	16G
Operating Temperature	0C to +70C
Operating Humidity	5 to 90%

Reliability Specifications

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

Performance Specifications

	Seq. Read (MB/sec max)	Seq. Write (MB/sec max)
FUM16G218H	170	80
FUM32G218H	200	130
FUM64G218H	200	130
FUM28G218H	200	130
FUD16G218H	170	140
FUD32G218H	200	140

Ordering Information

	MLC	SLC
16GB	FUM16G218H	FUD16G218H
32GB	FUM32G218H	FUD32G218H
64GB	FUM64G218H	
128GB	FUM28G218H	

© 2009 Super Talent Technology. Specifications subject to change without notice. US patent # 6,547,130 and others apply. 1GB=1,000,000,000 Bytes. Usable capacity may be less than specified after formatting. Actual performance varies depending upon the system configuration and the application used. Performance is highly dependent upon test environment and use case. Consult our benchmarking data for more detailed performance information or benchmark performance in your environment.

■ UltraDrive KX2 Series Pin Assignments

1.8" SATA Solid State Drive

Signal Connector

Pin	Symbol	Description
S1	GND	2nd mate
S2	A+	Differential Signal A from Phy
S3	A-	Differential Signal A from Phy
S4	GND	2nd mate
S5	B-	Differential Signal B from Phy
S6	B+	Differential Signal B from Phy
S7	GND	2nd mate

Power Connector

Pin	Symbol	Description
P1	3.3V	3.3V Power
P2	3.3V	3.3V Power
P3	GND	1st mate
P4	GND	2nd mate
P5	5V	5V Power
P6	5V	5V Power
P7	DAS/DSS	Device Activity Signal / Disable Staggered Spinup
P8	OPT0	Not Used
P9	OPT1	Not Used

Revision History

Feb 18, 2010 - Released first data sheet.

MasterDrive KX2 Series

uSATA Solid State Drive

