

HAMMER-D Series

Semi-Metal MLC USB Flash Disk Generation 3



Product features


- ✦ Tiny and semi-metal casing design
- ✦ USB 2.0 interface downwards compatible to USB 1.1
- ✦ Supports Ready Boost for Microsoft Vista O.S.
- ✦ USB 2.0 Mass Storage compliant
- ✦ Capacities from 1GB up to 16GB
- ✦ Performance up to 19.1 MB/sec

Product specifications

Compatibility	✦ USB 2.0 and USB 1.1 backwards	Functionality	✦ Supports auto-run function
Flash technology	✦ MLC-NAND type flash based		✦ Supports partition management, password and security
Performance		Power consumption	
Data transfer rate	✦ USB 2.0 supports transfer rates up to 480 Mb/s (60MB/s)	Power requirement	✦ 5V ± 10% via USB port
Sequential read	✦ 19.1 MB/sec (Max.)	Reading mode	✦ 74.0 mA (Max.)
Sequential write	✦ 16.7 MB/sec (Max.)	Writing mode	✦ 88.0 mA (Max.)
Average access time	✦ 0.6 ms (estimated)	Idle mode	✦ 63.5 mA (Max.)
Environmental specification		Reliability	
Operating temp.	✦ STD. 0°C ~ 70°C / WID. -40°C ~ +85°C	Wear-leveling	✦ Dynamic wear-leveling algorithms
Non-operating temp.	✦ STD. -20°C ~ +80°C / WID. -50°C ~ +95°C	ECC	✦ 8 bits or 15 bits per 512 bytes block
Humidity	✦ 10% ~ 95% non-condensing	Physical specification	
Vibration	✦ 15G compliance to MIL-STD-810F	Weight (max.)	✦ 15 g ± 1 g / 0.53 oz.
Shock	✦ 1,500G compliance to MIL-STD-810F	Dimension(W x L x T)	✦ 17.60 x 47.30 x 8.40 (mm)
Altitude	✦ 70,000 feet	Conformal coating	✦ Option for wide temperature
LED Indicator	✦ Operating with blue light LED	Warranty	✦ 1 year
OS supported	✦ Windows ME / 2000 / XP / Vista / Win 7 Mac9.x , Mac OS X / Win98SE need driver		

Operating temperature supports standard grade 0°C ~ 70°C and Wide temperature -40°C ~ +85°C

Part number list - semi-metal MLC USB flash disk - Generation 3

Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	1GB	SMUFD001G-ADCSM-3	WMUFD001G-ADCSM-3C
	2GB	SMUFD002G-ADCSM-3	WMUFD002G-ADCSM-3C
	4GB	SMUFD004G-ADCSM-3	WMUFD004G-ADCSM-3C
	8GB	SMUFD008G-ADCSM-3	WMUFD008G-ADCSM-3C
	16GB	SMUFD016G-ADCSM-3	WMUFD016G-ADCSM-3C

Remarks:

Wide temperature -40°C ~ +85°C with special conformal coating treatment on PCBA.

Part number decoder

X1	X2	X3	X4	X5	X6	X7	X8	X9	—	X11	X12	X13	X14	X15	—	3	C				
W	M	U	F	D	0	0	1	G	—	A	D	C	S	M	—	3	C				

X1 ✦ Grade

S : Standard grade operating temp. 0°C ~ 70°C
W : Wide temperature operating temp. -40°C ~ +85°C

X2 ✦ The material of casing

M : Semi-metal / metal casing

X3 X4 X5 ✦ Product category

UFD : USB flash disk

X6 X7 X8 X9 ✦ Capacity

001G : 1GB
002G : 2GB
004G : 4GB
008G : 8GB
016G : 16GB

X11 ✦ Controller

A : Alcor (HAMMER Series)

X12 ✦ Controller version

A,B,C,....D

X13 ✦ Controller grade

C : Commercial grade

X14 ✦ Flash IC

S : Samsung flash IC

X15 ✦ Flash IC grade

M : MLC-NAND flash IC

3 ✦ Housing type

3 : Generation 3 housing

C ✦ Reserved for specific requirement

C : Conformal-coating

MLC CF

MLC CompactFlash Card

MLC CFast

MLC CFast Card

MLC ATA

MLC PCMCIA ATA Card

MLC MIF

MLC micro IDE Flash Module

MLC MSE

MLC micro SATA Flash Module

MLC MUM

MLC micro USB Module

MLC SSD

MLC Solid State Disk

MLC USB

MLC Rugged Metal USB Flash Disk

MLC SD

MLC SD & SDHC Memory Card

AD

Industrial Adapter Card-Drive

MLC CF

MLC CompactFlash Card

MLC CFast

MLC CFast Card

MLC ATA

MLC PCMCIA ATA Card

MLC MIF

MLC micro IDE Flash Module

MLC MSE

MLC micro SATA Flash Module

MLC MUM

MLC micro USB Module

MLC SSD

MLC Solid State Disk

MLC USB

MLC Rugged Metal USB Flash Disk

MLC SD

MLC SD & SDHC Memory Card

AD

Industrial Adapter Card-Drive