

HAMMER Series

Industrial Rugged Metal USB Flash Disk Generation 2



Product features


- IP-54 & IP-68 Waterproof metal casing design
- USB 2.0 Mass Storage compliant
- USB 2.0 interface downwards compatible to USB 1.1
- Capacities from 128MB up to 8GB
- Supports Ready Boost for Microsoft Vista O.S.
- Performance up to 21.9 MB/sec

Product specifications

Compatibility	USB 2.0 and USB 1.1 backwards	Functionality	Supports auto-run function
Flash technology	SLC-NAND type flash based		A bootable disk for system recovery
Performance			Supports partition management, password and security
Data transfer rate	USB 2.0 supports transfer rates up to 480 Mb/s (60MB/s)	Power consumption	
Sequential read	21.9 MB/sec (Max.)	Power requirement	5V ± 10% via USB port
Sequential write	19.1 MB/sec (Max.)	Reading mode	78.2 mA (Max.)
Average access time	0.6 ms (estimated)	Writing mode	80.5 mA (Max.)
Environmental specification		Sleeping mode	68.3 mA (Max.)
Operating temp.	STD. 0°C ~ 70°C / IND. -40°C ~ +85°C	Reliability	
Non-operating temp.	STD. -20°C ~ +80°C / IND. -50°C ~ +95°C	Wear-leveling	Dynamic wear-leveling algorithms
Humidity	10% ~ 95% non-condensing	MTBF	> 1,000,000 hours
Vibration	15G compliance to MIL-STD-810F	ECC	4 bits per 512 bytes block
Shock	1,500G compliance to MIL-STD-810F	Endurance	> 2,000,000 cycles
Altitude	70,000 feet	Physical specification	
OS supported	Windows ME / 2000 / XP / Vista Mac9.x , Mac OS X / Win98SE need driver	Weight (max.)	40 g ± 3 g / 1.41 oz.
		Dimension(W x L x H)	54.00 x 19.90 x 19.90 (mm)
		Warranty	Standard grade : 3 years Industrial grade : 5 years

Operating temperature supports Standard grade 0°C ~ 70°C and Industrial grade -40°C ~ +85°C

Part number list - Industrial rugged metal USB flash disk - Generation 2

Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	128MB	SRUFD128M-ACCSC/2	WRUFD128M-ACISI/2
	256MB	SRUFD256M-ACCSC/2	WRUFD256M-ACISI/2
	512MB	SRUFD512M-ACCSC/2	WRUFD512M-ACISI/2
	1GB	SRUFD001G-ACCSC/2	WRUFD001G-ACISI/2
	2GB	SRUFD002G-ACCSC/2	WRUFD002G-ACISI/2
	4GB	SRUFD004G-ACCSC/2	WRUFD004G-ACISI/2
	8GB	SRUFD008G-ACCSC/2	WRUFD008G-ACISI/2

Part number decoder

X1 X2 X3 X4 X5 X6 X7 X8 X9 — X11 X12 X13 X14 X15 / C

Example

W R U F D 1 2 8 M — A C I S I / 2

X1 Grade

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

X2 The material of casing

R : Rugged metal casing

X3 X4 X5 Product category

UFD : USB flash disk

X6 X7 X8 X9 Capacity

128M : 128MB 001G : 1GB
256M : 256MB 002G : 2GB
512M : 512MB 004G : 4GB
 008G : 8GB

X11 Controller

A : Alcor (HAMMER Series)

X12 Controller version

A,B,C,.....

X13 Controller grade

C : Commercial grade
I : Industrial grade

X14 Flash IC

S : Samsung SLC-NAND flash IC

X15 Flash IC grade

C : Commercial grade
I : Industrial grade

C Reserved for specific requirement

2 : Generation 2 housing