

The Most **Reliable**
Storage For Industries

UH110-UFM3 with Housing



UH110-UFM3

Overview

Apacer's UH110-UFM3 is a high performance, embedded solid state drive (SSD) designed to replace a conventional IDE hard disk drive. As an embedded flash storage, UH110-UFM3 is compliant with USB 2.0 and backward compatible with USB 1.1.

Utilizing 3D NAND for capacity up to 64GB and providing more power efficiency than 2D NAND, UH110-UFM3 can be plugged into a standard Embedded USB connector commonly found in desktops, portable PC systems and industrial PC systems.

Regarding reliability, UH110-UFM3 is not only implemented with LDPC (Low Density Parity Check) ECC engine to extend SSD endurance and increase data reliability, but also equipped with SLC-liteX technology to offer higher number of P/E cycles up to 30,000 times.

In terms of flash management, UH110-UFM3 adopts the latest Page Mapping file translation layer and comes with various implementations including power saving modes, Wear Leveling, flash block management, power failure management, S.M.A.R.T. and Smart Read Refresh™.

UH110-UFM3 is well suited for embedded flash storage applications offering new and expanded functionality as well as more cost-effective designs, better performance and increased reliability.



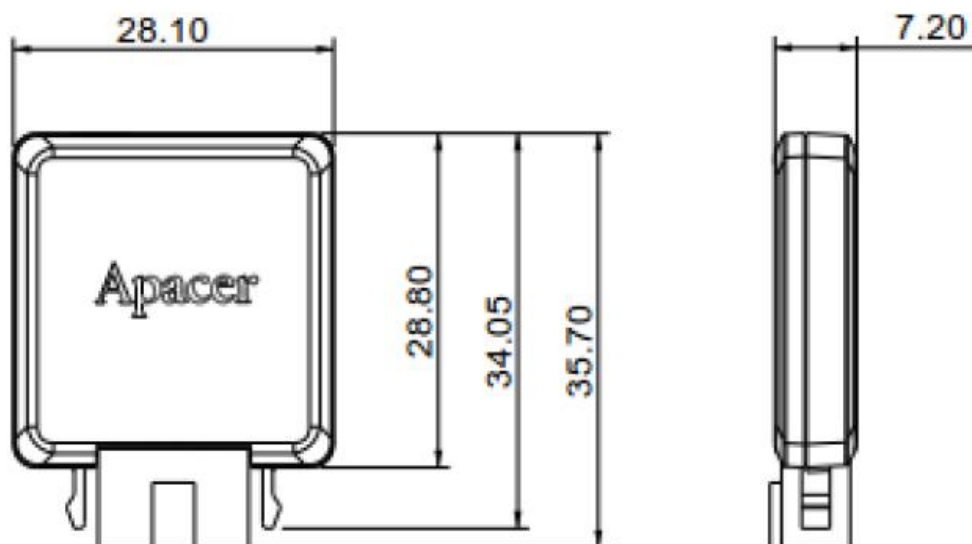
Feature

- Low-Density Parity-Check (LDPC) Code
- Flash bad-block management
- Global Wear Leveling
- Flash Translation Layer: Page Mapping
- S.M.A.R.T.
- Smart Read Refresh™
- SLC-liteX

Specifications

Model	UH110-UFM3 with Housing
Interface	USB 2.0
Connector	10-pin (2x5) female header in 2.54mm
Form Factor	USB Disk Module
NAND Flash Type	3D TLC
Capacity	32GB~64GB
External DRAM	No
Sequential Read Performance (MB/sec)	Up to 37
Sequential Write Performance (MB/sec)	Up to 32
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPS (4K Random Write)	400
Standard Operating Temperature (°C)	0 ~ + 70
Extended Operating Temperature (°C)	-40 ~ + 85
Storage Temperature (°C)	-55 ~ + 100
Housing	Yes
H/W Write Protect	Optional
Screw Hole	No
Shock	Operation: Acceleration, 50(G)/11(ms)/half sine (compliant with MIL-STD-202G) Non-operation: Acceleration, 1500(G)/0.5(ms)/half sine (compliant with MIL-STD-883K)
Vibration	Operation: 7.69 Grms, 20~2000 Hz/random (compliant with MIL-STD-810G) Non-operation: 4.02 Grms, 15~2000 Hz/random (compliant with MIL-STD-810G)
Operating Voltage	5.0 V ± 5%
Power Consumption	Active mode: 95 mA; Idle mode: 75 mA
Dimension (L x W x H)	35.70 x 28.10 x 7.20 (mm)
MTBF (hours)	>3,000,000

Mechanical Specification



For more information,
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