

Apacer

The Most **Reliable**
Storage For Industries

UH110-UFM1



UH110-UFM1

Overview

Apacer's UH110-UFM1 is a high performance, embedded solid state drive (SSD) designed to replace a conventional IDE hard disk drive. As an embedded flash storage, UH110-UFM1 is compliant with USB 2.0 and backward compliant with USB 1.1.

Utilizing 3D NAND for capacity up to 64GB and providing more power efficiency than 2D NAND, UH110-UFM1 can be plugged into a standard Embedded USB connector commonly found in desktops, portable PC systems and industrial PC systems.

Regarding reliability, UH110-UFM1 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-UFM1 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-UFM1 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

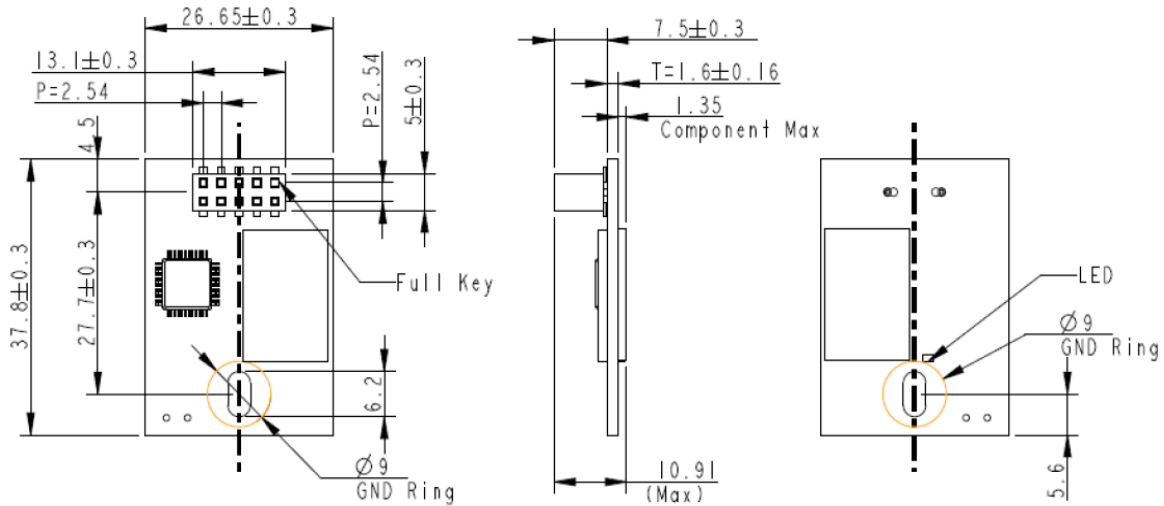
- Low-Density Parity-Check (LDPC) Code
- Flash bad-block management
- Global Wear Leveling
- Flash Translation Layer: Page Mapping
- S.M.A.R.T.
- Smart Read Refresh™
- SLC-liteX

Specifications

Model	UH110-UFM1
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
Sustained Read Performance (MB/sec)	Up to 37
Sustained 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	No
H/W Write Protect	Optional
Screw Hole	Yes
Shock	Operation: 50G/11ms (compliant with MIL-STD-202G) Non-operation: 1500G/0.5ms (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)	37.8 x 26.65 x 10.91 (mm)
MTBF (hours)	>3,000,000

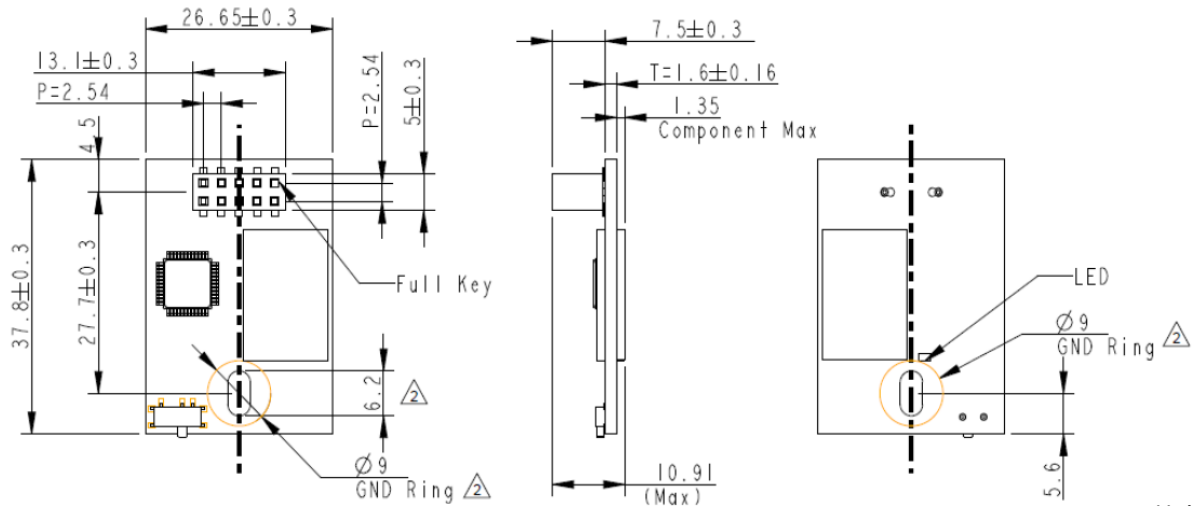
Mechanical Specification

Without Write Protect Switch



Unit: mm

With Write Protect Switch



Unit: mm

For more information,
contact your Apacer representative

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