

## The Most **Reliable** Storage For Industries

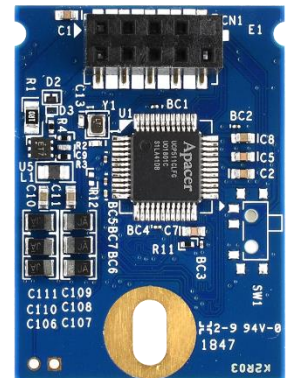
**UH110-UFM1**



# 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. Utilizing 3D NAND, UH110-UFM1 can be plugged into a standard Embedded USB connector commonly found in desktops, portable PC systems and industrial PC systems. This product 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.



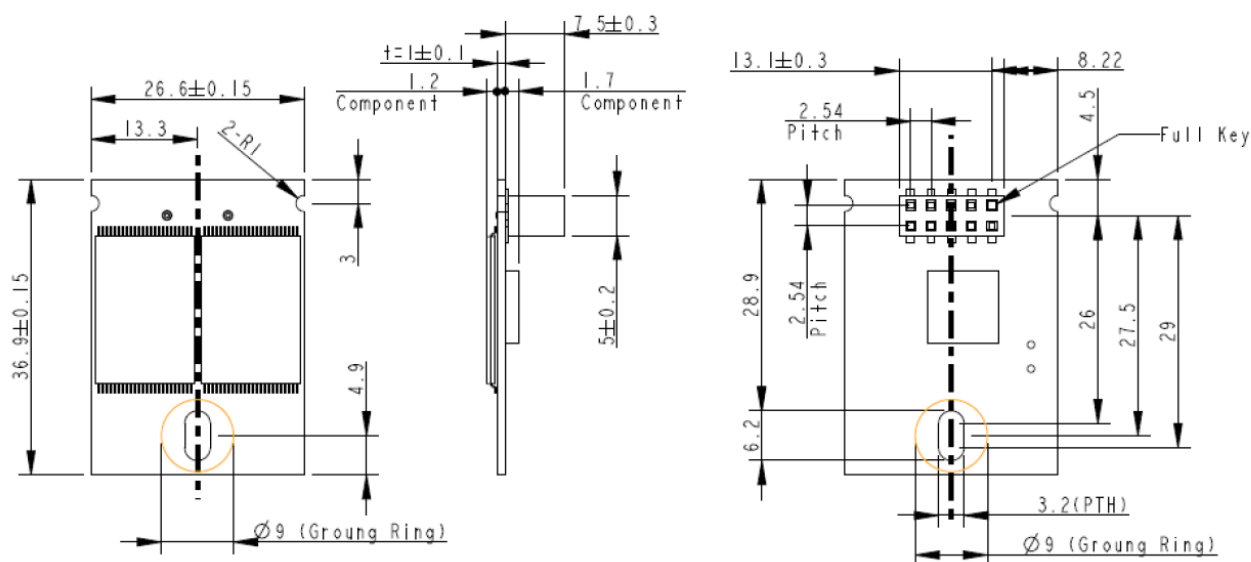
## Feature

- Adopts advanced LDPC ECC engine with 3D NAND SLC-liteX technology to improve reliability
- Global Wear Leveling
- Flash bad-block management
- 4K Page Mapping
- S.M.A.R.T.
- Hyper Cache Technology
- SMART Read Refresh™

## 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                              | 8GB~32GB                                                                                                                                                 |
| External DRAM                         | No                                                                                                                                                       |
| Sustained Read Performance (MB/sec)   | Up to 41                                                                                                                                                 |
| Sustained Write Performance (MB/sec)  | Up to 25                                                                                                                                                 |
| ECC Engine                            | Low-Density Parity-Check (LDPC) Code                                                                                                                     |
| IOPS (4K Random Write)                | 500                                                                                                                                                      |
| Standard Operating Temperature ( °C ) | 0 ~ + 70                                                                                                                                                 |
| Extended Operating Temperature ( °C ) | -40 ~ + 85                                                                                                                                               |
| Storage Temperature ( °C )            | -40 ~ 100                                                                                                                                                |
| Housing                               | No                                                                                                                                                       |
| H/W Write Protect                     | No                                                                                                                                                       |
| Screw Hole                            | Yes                                                                                                                                                      |
| Cable-less Solution                   | No                                                                                                                                                       |
| Thermal sensor                        | No                                                                                                                                                       |
| Shock                                 | Operation: 50G/11ms<br>(compliant with MIL-STD-202G)<br>Non-operation: 1500G/0.5ms<br>(compliant with MIL-STD-883K)                                      |
| Vibration                             | Operation: 7.69 Grms, 20~2000 Hz/random<br>(compliant with MIL-STD-810G)<br>Non-operation: 4.02 Grms, 15~2000 Hz/random<br>(compliant with MIL-STD-810G) |
| Operating Voltage                     | 5.0 V ± 5%                                                                                                                                               |
| Power Consumption                     | Active mode: 95 mA; Idle mode: 70 mA                                                                                                                     |
| Dimension (L x W x H )                | 36.9 mm x 26.6 mm x 9.7 mm                                                                                                                               |
| MTBF (hours)                          | >3,000,000                                                                                                                                               |

## Mechanical Specification



Unit: mm  
Tolerance:  $\pm 0.2$

For more information,  
contact your Apacer representative

## Global Presence

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