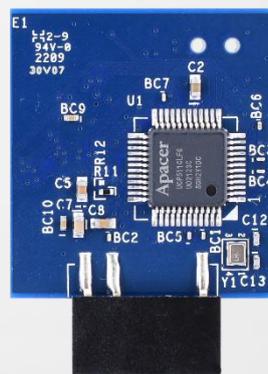


# Apacer

The Most **Reliable**  
Storage For Industries

UH110-UFM3



## UH110-UFM3

### Overview

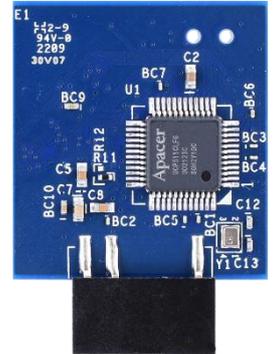
Apacer's UH110-UFM3 is a high performance, embedded solid state drive (SSD) designed to replace a conventional IDE hard disk drive. As an embedded flash storage, UH110-UFM3 is compliant with USB 2.0 and backward compliant with USB 1.1.

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

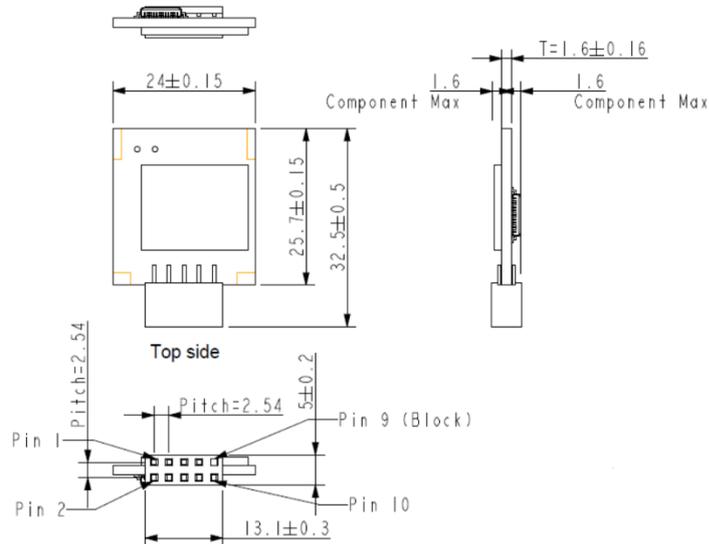
- Low-Density Parity-Check (LDPC) Code
- Flash bad-block management
- Global Wear Leveling
- Flash Translation Layer: Page Mapping
- S.M.A.R.T.
- Smart Read Refresh™
- SLC-liteX

## Specifications

<b>Model</b>	UH110-UFM3
<b>Interface</b>	USB 2.0
<b>Connector</b>	10-pin (2x5) female header in 2.54mm
<b>Form Factor</b>	USB Disk Module
<b>NAND Flash Type</b>	3D TLC
<b>Capacity</b>	32GB~64GB
<b>External DRAM</b>	No
<b>Sequential Read Performance (MB/sec)</b>	Up to 37
<b>Sequential Write Performance (MB/sec)</b>	Up to 32
<b>ECC Engine</b>	Low-Density Parity-Check (LDPC) Code
<b>IOPS (4K Random Write)</b>	400
<b>Standard Operating Temperature ( °C )</b>	0 ~ + 70
<b>Extended Operating Temperature ( °C )</b>	-40 ~ + 85
<b>Storage Temperature ( °C )</b>	-55 ~ 100
<b>Housing</b>	No
<b>H/W Write Protect</b>	Optional
<b>Screw Hole</b>	Yes
<b>Shock</b>	Operation: 50G/11ms (compliant with MIL-STD-202G) Non-operation: 1500G/0.5ms (compliant with MIL-STD-883K)
<b>Vibration</b>	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)
<b>Operating Voltage</b>	5.0 V ± 5%
<b>Power Consumption</b>	Active mode: 95 mA; Idle mode: 75 mA
<b>Dimension (L x W x H )</b>	32.50 x 24.00 x 5.00 (mm)
<b>MTBF (hours)</b>	>3,000,000

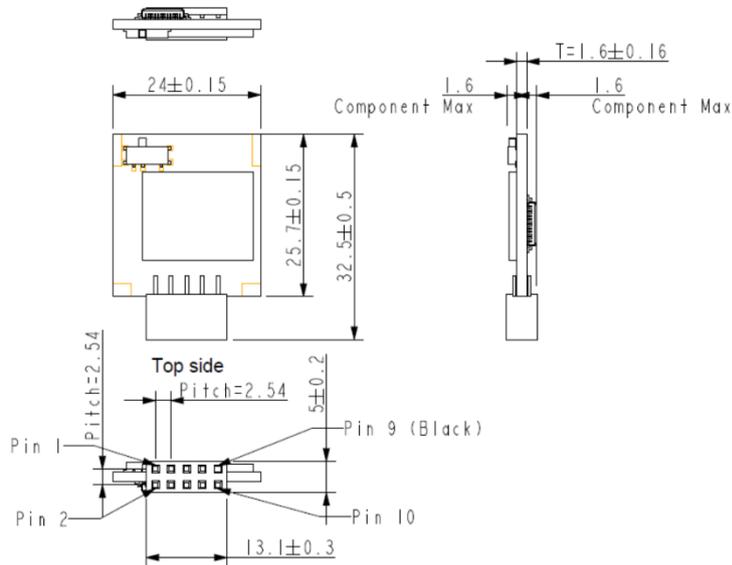
## Mechanical Specification

### Without Write Protect Switch



Unit: mm

### With Write Protect Switch



Unit: mm

For more information,  
contact your Apacer representative

### Global Presence

Taiwan (Headquarters)  
Apacer Technology Inc.  
Tel: +886-2-2267-8000  
Fax: +886-2-2267-2261

Europe  
Apacer Technology B.V.  
Tel: +31-40-267-0000  
Fax: +31-40-290-0686

U.S.A.  
Apacer Memory America, Inc.  
Tel: +1-408-518-8699  
Fax: 1-510-249-9551

China  
Apacer Electronic(Shanghai)  
Co., Ltd.  
Tel: +86-21-6228-9939

Japan  
Apacer Technology Corp.  
Tel: +81-3-5419-2668  
Fax: +81-3-5419-0018

India  
Apacer Technologies Pvt. Ltd.  
Tel: +91-80-41529061~3  
Fax: +91-80-41700215