

The Most **Reliable**  
Storage For Industries

**UT110-UFM1**



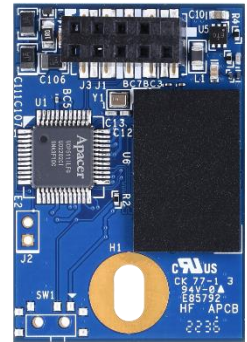
### Overview

Apacer's UT110-UFM1 is a high performance, embedded solid state drive (SSD) designed to replace a conventional IDE hard disk drive. As an embedded flash storage, UT110-UFM1 is compliant with USB2.0 and backward compliant with USB1.1 interface.

Utilizing 3D NAND for capacity up to 256GB and providing more power efficiency than 2D NAND, UT110-UFM1 can be plugged into a standard Embedded USB connector commonly found in desktops, portable PC systems and industrial PC systems. Regarding reliability, UT110-UFM1 is implemented with LDPC (Low Density Parity Check) ECC engine to increase data reliability.

In terms of flash management, UT110-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 Hyper Cache Technology.

With cost-effective design, better performance and increased reliability, UT110-UFM1 is well suited for embedded flash storage applications offering new and expanded functionality.



## Feature

- Adopts Advanced LDPC ECC Engine with 3D NAND Flash Memory to Improve Reliability
- Global Wear-leveling
- Flash Bad-block Management
- S.M.A.R.T.
- Flash Translation Layer: Page Mapping
- Hyper Cache Technology
- Write Protect (Optional)

## Specifications

Model	UT110-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	64GB~256GB
External DRAM	No
Sustained Read Performance (MB/sec)	Up to 40
Sustained Write Performance (MB/sec)	Up to 30
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPs (4K Random Write)	400
Standard Operating Temperature ( °C )	0 ~ 70
Extended Operating Temperature ( °C )	No
Storage Temperature ( °C )	-55 ~ 100
Housing	No
H/W Write Protect	Optional
Screw Hole	Yes
Cable-less Solution	No
Thermal Sensor	No
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: 125 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

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