Apacer

The Most **Reliable** Storage For Industries

UT110-UFD1

Overview

UT110-UFD1

Apacer's UT110-UFD1 is a next-generation, high-performance USB flash drive designed to meet the latest USB 3.2 Gen1 SuperSpeed specifications, providing transfer rates up to 5 Gb/s, making it an ideal replacement for conventional IDE hard drives. The connector is also backward compatible with USB 2.0 and USB 1.1 interfaces, ensuring broad usability. Compliant with USB 3.2, UT110-UFD1 achieves impressive performance of up to 265 MB/s while maintaining low power consumption.

Utilizing 3D NAND technology and offering greater power efficiency than 2D NAND, UT110-UFD1 is designed to interface with standard Embedded USB connectors commonly found in desktops, portable PCs, and industrial systems. To ensure enhanced reliability, the drive features an LDPC (Low-Density Parity Check) ECC engine to extend SSD endurance and improve data reliability. Additionally, UT110-UFD1 also features a compact size and robust metal housing, which protects against mechanical interference and provides enhanced environmental and ESD protection.

In terms of flash management, UT110-UFD1 incorporates various advanced features, including a powerful hardware ECC engine, wear leveling, bad block management, power failure management, page mapping, Hyper Cache technology, Smart Read Refresh™, and S.M.A.R.T.

With exceptional performance, power efficiency, enhanced functionality, and increased reliability, UT110-UFD1 is an ideal storage solution for a variety of applications, ranging from industrial, imaging, and computing to enterprise markets.

Features

- Adopts advanced LDPC ECC engine with 3D NAND flash memory to improve reliability
- Global Wear Leveling
- Flash bad-block management
- 4K Page Mapping
- Power Failure Management
- S.M.A.R.T.
- Hyper Cache Technology
- Smart Read Refresh™

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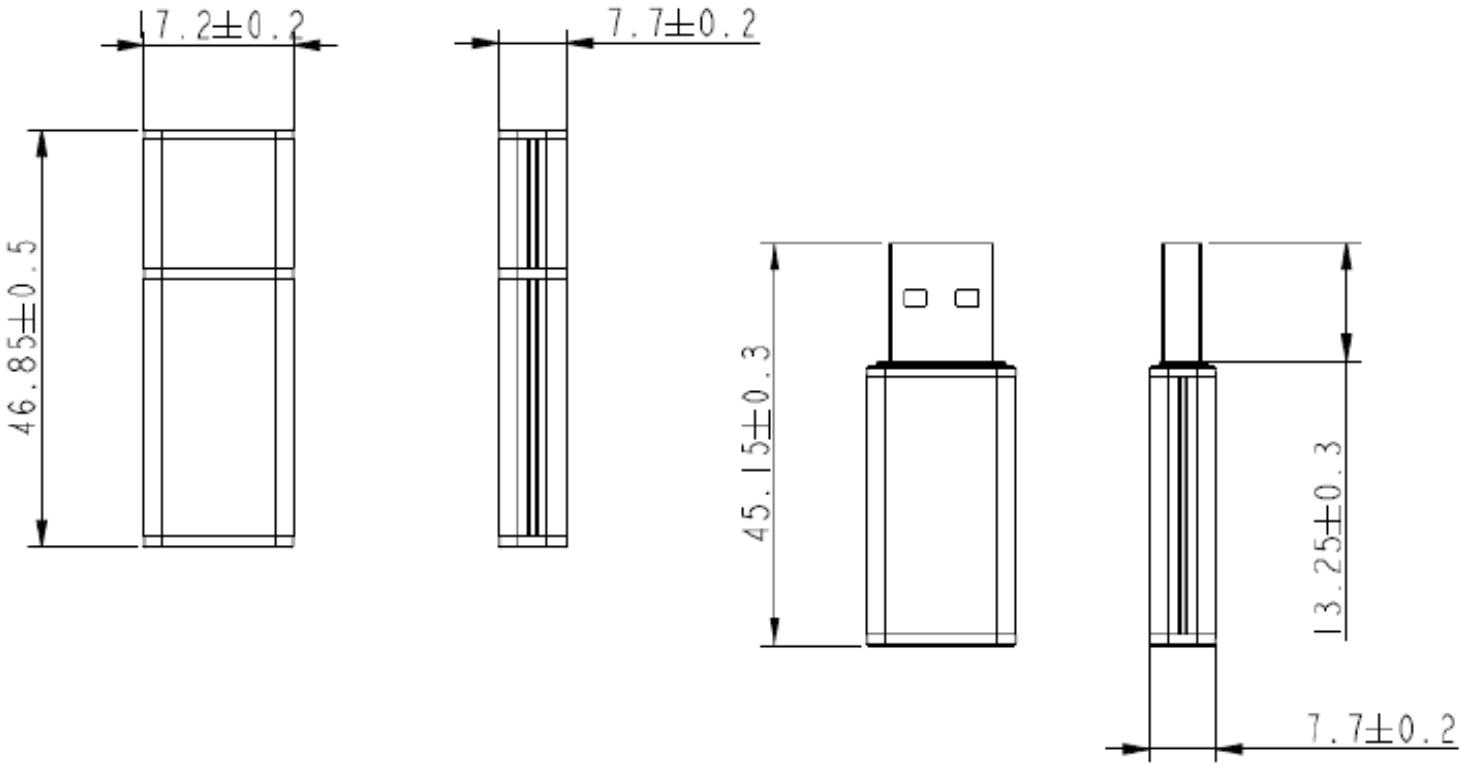
Specifications

Model Name	UT110-UFD1
Interface	USB 3.2 Gen1
Connector	Type-A
Form Factor	USB Flash Drive
NAND Flash Type	3D TLC
Capacity	64GB~256GB
External DRAM	No
Sustained Read Performance (MB/sec.)	Up to 265
Sustained Write Performance (MB/sec.)	Up to 190
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPS (4K Random Read/Write)	1000
Standard Operating Temperature (°C)	0°C ~ 70°C
Storage Temperature (°C)	-55°C ~ + 100°C
Housing	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	5.0V ±5%
Power Consumption	Active mode: 215 mA; Idle mode: 80 mA
Dimension (L x W x H)	46.85 x 17.20 x 7.70 (mm)
MTBF (Hours)	>3,000,000

Mechanical Specifications



Unit: mm

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