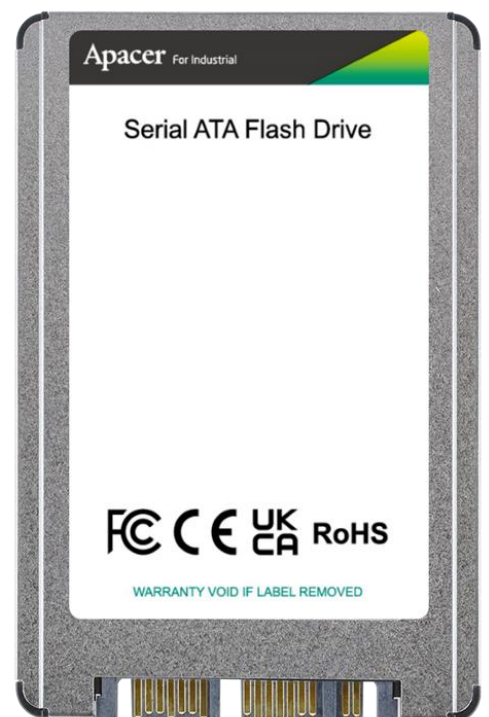


The Most **Reliable** Storage For Industries

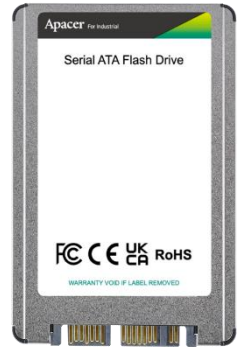
SM170-18



Overview

Apacer's SM170-18 is a well-balanced solid-state drive (SSD) with a standard form factor and impressive performance. Designed with a SATA 6 Gb/s interface, SM170-18 complies fully with the latest SATA Revision 3.2 specifications and delivers exceptional read/write speeds, making it the ideal companion for demanding industrial or server operations.

SM170-18



SM170-18 is built with a powerful SATA controller that supports on-the-module ECC for error correction as well as efficient wear leveling scheme for extended lifespan. Additionally, SM170-18 is equipped with a built-in thermal sensor (available on the wide-temp model only) to monitor the temperature of the SSD via S.M.A.R.T commands to prevent overheating. Operating under 6 Gb/s interface, SM170-18 is provided with Apacer latest S.M.A.R.T. that is primarily oriented for the latest SATA interface SSD, for drive lifetime monitoring and analysis.

In terms of reliability, SM170-18 features End-to-End Data Protection to ensure data integrity across the entire transfer path, delivering reliable and secure data transmission. It also incorporates a range of advanced technologies, including bad block management, power failure management, ATA secure erase, page mapping, TRIM support, power-saving modes, Hyper Cache Technology, and Smart Read Refresh.

With exceptional performance and enhanced reliability, SM170-18 is the ideal storage or cache solution for a variety of applications ranging from industrial, imaging, computing to enterprise markets.

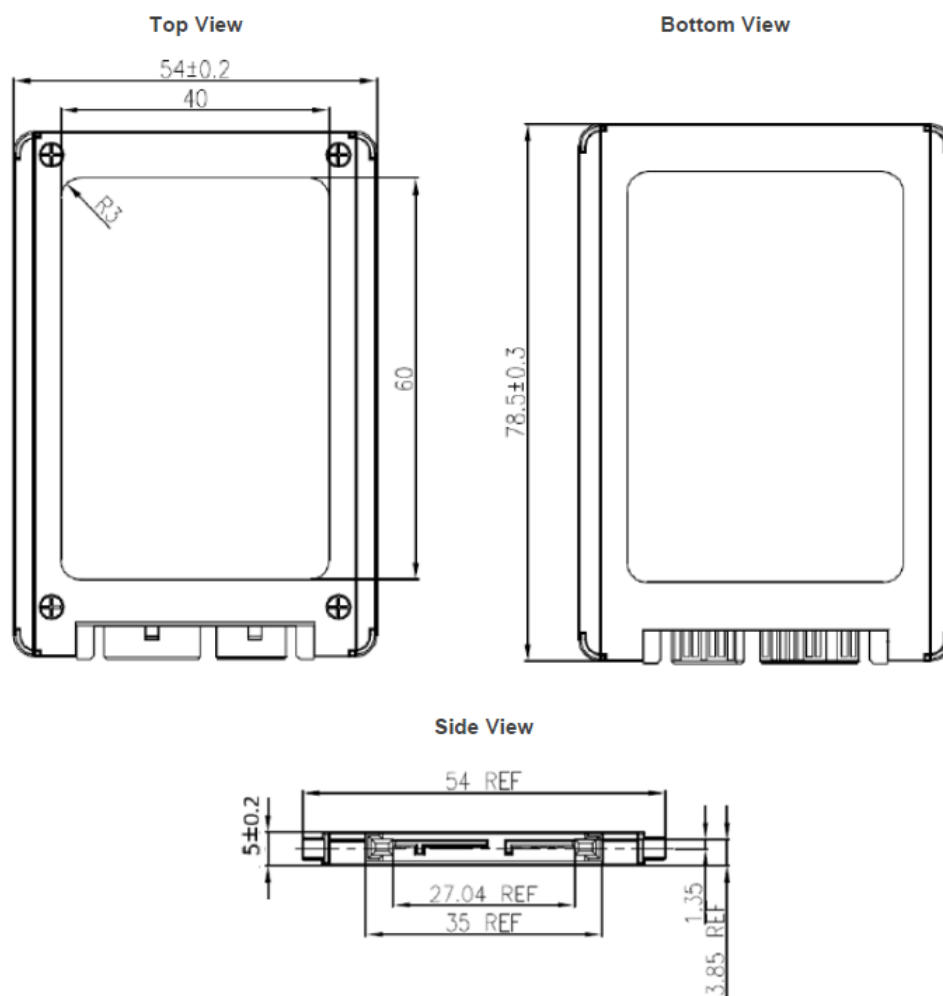
Features

- Low-Density Parity-Check (LDPC) Code
- Global Wear-leveling
- Flash Bad Block Management
- Flash Translation Layer: Page Mapping
- S.M.A.R.T.
- TRIM
- ATA Secure Erase
- Power Failure Management
- SSDWidget
- Hyper Cache Technology
- SMART Read Refresh™

Specifications

Model Name	SM170-18
Interface	SATA III
Connector	(7+15) pin male
Form Factor	1.8"
NAND Flash Type	2D MLC
Capacity	256GB~512GB
External DRAM	No
Sustained Read Performance (MB/sec.)	Up to 550
Sustained Write Performance (MB/sec.)	Up to 480
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPS (4K Random Write)	70K
Standard Operating Temperature (°C)	-
Extended Operating Temperature (°C)	-40°C ~ 85°C
Storage Temperature (°C)	-55°C ~ 100°C
Housing	-
Thermal Sensor	Yes
Shock	Operation: Acceleration, 50(G)/11(ms)/half sine (Compliant with MIL-STD-202G) Non-operation: Acceleration, 1,500(G)/0.5(ms)/half sine (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	3.3V ± 5% / 5V ± 5%
Power Consumption	3.3V: Active Mode (Max.): 800 mA; Idle Mode: 100 mA 5V: Active Mode (Max.): 510 mA; Idle mode: 70 mA
Dimension (L x W x H)	78.50 x 54.00 x 5.00, unit: mm
MTBF (Hours)	>2,000,000

Mechanical Specifications



**For more information,
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