

PRODUCT BRIEF

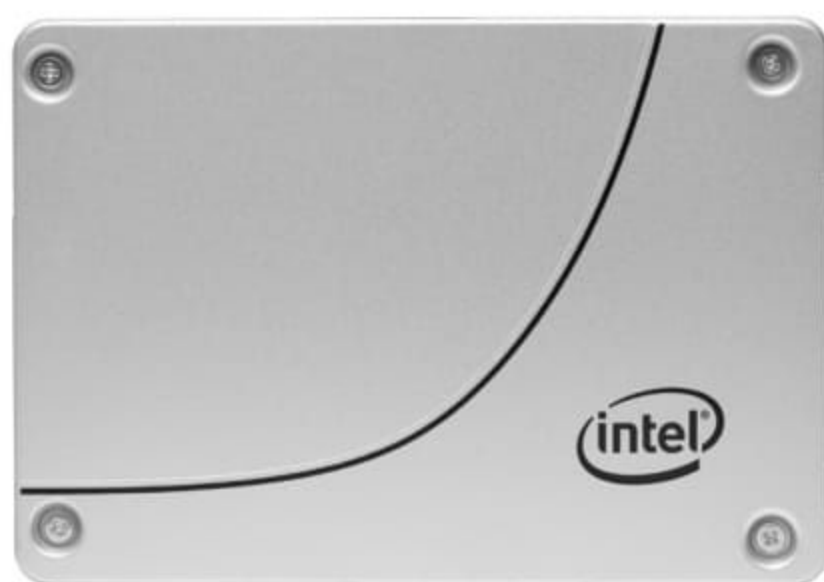
Intel® Solid State Drive E 7000s Series

Embedded (E), SATA (s), 3D NAND

Built-in Reliability

Built-in Reliability Your Data Deserves

Trust the Intel® SSD E 7000s to reliably and consistently optimize the value of your data.



Superior Choice

Experience the exceptional performance of an Intel® Solid State Drive E 7000s Series. Available in capacities ranging from 150GB to 960GB, the Intel® SSD E 7000s Series offers excellent durability, lasting integrity, security, and performance features across a variety of applications, including digital signage and ATMs.

Intel® 3D NAND SSDs

The E 7000s Series is part of the Intel® 3D NAND SSD family of products. Built on breakthrough 3D NAND and delivered by a proven and trusted supplier, Intel® 3D NAND SSDs transform the economics of storage.

Consistent Performance

Lasting integrity and consistency means more value for you and your customers

Cost of service on an embedded drive is often hundreds of dollars per call. While other drives' performance may degrade over time, the E 7000s Series offers predictable performance right out of the box and throughout the entire life of the drive. Intel closely evaluates drive fill performance to ensure it is at or near the same level when full as when empty, which helps your business remain competitive without frequent drive replacement.

Built-in Hardware-based Security

The E 7000s Series offers built-in security through AES 256-bit self-encryption to help protect your data.

Helping Avoid the Unexpected

Power Loss Imminent (PLI) technology significantly reduces the possibility of losing data during a power loss event.

Data retention is critical for many embedded applications and IoT solutions. Acts of nature, careless mistakes, or even inadvertent hot removal of the SSD pose a potential power loss threat. PLI continuously prepares for unexpected power loss, protecting your data to help ensure it will be reliably read or written, even during moments of power loss, for complete confidence.

Proven End-to-End Data Protection

With a demonstrated uncorrectable bit error rate (UBER) and protection against silent data corruption, the E 7000s Series helps give your data the robust protection it deserves.

Benefit from Intel Expertise Across the Entire Technology Spectrum

The E 7000s Series is designed to work with the entire Intel platform: from CPU, to chipset, to network interface, to firmware and drivers. You'll benefit from engineering across all ingredients, not just the SSDs, empowering you to focus on designing the best possible solution for your customers.

Best for IoT

Your best IoT solutions are built with Intel technology.

Data is vital when it comes to extracting the value of IoT solutions. The E 7000s Series reliably captures, stores, and manages data to accelerate decision-making.

Product Spotlight

- Increased endurance
- Consistent performance
- AES 256-bit self-encryption
- Power loss protection with PLI
- End-to-end data protection
- Extended supply life
- Backed by Intel's five year warranty

TECHNICAL SPECIFICATIONS¹

Model Name	Intel® Solid State Drive E 7000s Series				
Capacity (GB)	2.5" - 150, 240, 480, 960 M.2 - 150, 240, 480, 960				
NAND Flash Memory	3D Multi-Level Cell (MLC)				
Bandwidth	Form Factor	Sequential Read (up to) ^{2,3,7}	Sequential Write (up to) ^{2,3,7}	Random Read (up to) ^{2,7}	Random Write (up to) ^{2,7}
	Capacity Point				
Bandwidth	2.5" 150GB, 240GB, 480GB, 960GB	450MB/s	380MB/s	67K IOPs	16K IOPs
	M.2 150GB, 240GB, 480GB, 960GB	450MB/s	380MB/s	67K IOPs	27K IOPs
Interface	SATA 6Gb/s, compatible with SATA 3Gb/s and 1.5Gb/s				
Form Factor, Height and Weight	Form Factor				Height/Weight
	2.5"				7.0mm thick/62 grams ± 2 grams
	M.2				9 grams ± 1 gram
Life Expectancy ⁴	2 million hours Mean Time Between Failures (MTBF), 230 years				
Lifetime Endurance ⁵	Up to 1 Drive Writes Per Day (DWPD)				
Power Consumption ⁶	Active: Up to 3.5W Typical		Idle: Up to 0.6W Typical		
Operating Temperature	2.5"	0°C to 70°C			
	M.2	0°C to 70°C			
RoHS Compliance	Meets the requirements of European Union (EU) RoHS Compliance Directives				