

Built for rugged applications, these systems endure extreme conditions with resistance to temperature, altitude, and humidity, plus anti-vibration and shock protection, ensuring high reliability and performance in mission-critical scenarios.



Enhanced Data Security

FIPS 140-2 certified cryptographic modules safeguard sensitive data, ensuring compliance with strict security standards.



Power Failure Protection

DataDefender™ detects abnormal power events, preventing data loss during outages or fluctuations.



Unmatched Corrosion Resistance

Patented anti-sulfuration memory and SSDs deliver industry-leading anti-corrosion protection for harsh environments.



Improved Product Durability

Conformal coating protects devices from dust and liquids, enhancing reliability in challenging conditions.



Reliable Extreme Temperature Performance

Wide temperature support (-40°C to 85°C) ensures stable operation in extreme climates.



Strengthened Vibration Resistance

Sidefill technology reinforces solder joints for vibration resistance and improves heat dissipation to prevent damage.

Product Specification









Model Name	SV240-25 FIPS 140-2	SV240-M280 FIPS 140-2	SV240-300 FIPS 140-2	SV240-297 FIPS 140-2
Form Factor	2.5"	M.2 2280	mSATA (MO-300)	HalfSlim (MO-297)
Interface	SATA 3.2 (6Gb/s)	SATA 3.2 (6Gb/s)	SATA 3.2 (6Gb/s)	SATA 3.2 (6Gb/s)
NAND Flash Type	3D TLC	3D TLC	3D TLC	3D TLC
Capacity	240GB~1920GB	240GB~1920GB	240GB~1920GB	240GB~960GB
Max. Sequential R/W (MB/sec.)	560/500	560/500	560/500	560/500
Max. Random R/W (IOPS)	94K/80K	95K/80K	95K/80K	94K/80K
External DRAM Buffer	Yes	Yes	Yes	Yes
Operating Temperature (°C)	WT: -40°C ~ 85°C	WT: -40°C ~ 85°C	WT: -40°C ~ 85°C	WT: -40°C ~ 85°C
R-SATA Connector Support (Optional)	Yes	No	No	No

Product Specification









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Model Name	DDR4 XR-DIMM	DDR4 Rugged SODIMM	DDR5 Wide Temperature SODIMM	DDR5 Anti-sulfuration SODIMM
Module Type	XR-DIMM	Rugged SODIMM	Wide Temperature SODIMM	Anti-sulfuration SODIMM
Memory Technology	DDR4	DDR4	DDR5	DDR5
Speed	2133/2400	2133/2400/2666/ 2933/3200	4800/5600	4800/5600
Density	8GB/16GB	8GB/16GB/32GB	8GB/16GB/32GB	8GB/16GB/ 32GB/48GB
Voltage	1.2v	1.2v	1.1v	1.1v
Pin Count	300-Pin	260-Pin	262-Pin	262-Pin
Width	64-Bit / 72-Bit	64-Bit / 72-Bit	64-Bit	64-Bit
PCB Height	1.466"	1.377"	1.18"	1.18"
Operating Temperature (°C)	TC: 0°C ~ 85°C / -40°C ~ 85°C	TC: 0°C ~ 85°C / -40°C ~ 85°C	TC: -40°C ~ 85°C	TC: 0°C ~ 85°C
Fully Lead-free Resistor	No	No	Yes	Yes