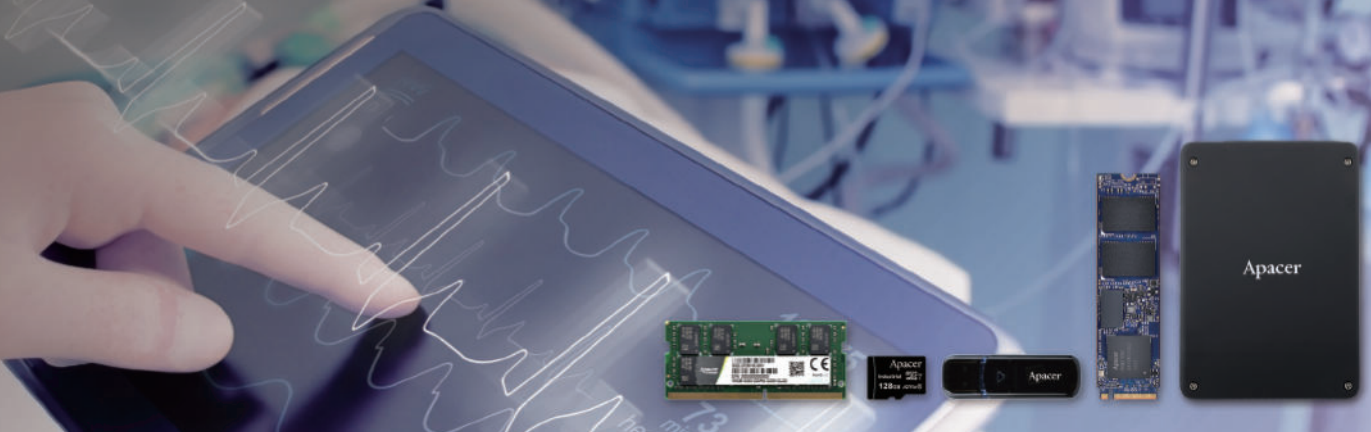


Industrial SSD & DRAM Solutions for Healthcare Applications



The integrity and immediacy of the data stored in medical devices is also closely related to the diagnosis, monitoring and treatment of a disease. Apacer's featured technologies are based on four key considerations: data integrity, data security, reliability & endurance and longevity to help healthcare applications meet the challenging standards of their industry.

Featured Technologies for Medical Devices



CoreSnapshot

Full backup and recovery of SSD data can be performed in 1 second, which can instantly eliminate catastrophic system issues and prevent data damage or downtime from translating into operational risks and losses.



ESD Protection

Excellent electrostatic protection which has passed the test conditions of IEC 61000-4-2. Provides a high standard of protection for electromagnetic susceptibility (EMS) that meets the medical equipment standard EN60601-1-2.



Data Integrity

- End-to-end Data Protection
- Smart Read Refresh™



Data Security

- Bidirectional Security Identification
- Signed Firmware
- TCG Opal 2.0



Reliability & Endurance

- Conformal Coating
- ESD Protection
- SLC-liteX



Longevity

- CoreSnapshot
- SSDWidget 2.0
- Fixed BOM
- 6+6 PCN/EOL Policy

Recommended Industrial SSD solutions



Model	SV250-25	SH250-M242	SV25P-M280	SH25P-M280	UH110-UFD1	UV110-UFD5	UV110-UFD1	
Features	High Endurance w/ Smart Read Refresh™ & CoreSnapshot Technologies		High Endurance, TCG Opal 2.0	CorePower	High Endurance CorePower	High Endurance	ESD Protection	Bidirectional Security Identification
Form Factor	2.5"	M.2 2242	M.2 2280	M.2 2280	USB Flash Drive	USB Flash Drive	USB Flash Drive	
Interface	SATA 3.2 (6Gb/s)	SATA 3.2 (6Gb/s)	SATA 3.2 (6Gb/s)	SATA 3.2 (6Gb/s)	USB 3.1 Gen1	USB 3.1 Gen1	USB 3.1 Gen1	
Connector	(7+15) pin male	M.2 B & M key	M.2 B & M key	M.2 B & M Key	USB Type A Plug	USB Type A Plug	USB Type A Plug	
NAND Flash Type	3D TLC							
Capacity	30~960 GB	10~160 GB	120~960 GB	40~320 GB	16~64GB	128GB~256GB	128GB~512GB	
External DRAM	No	No	No	No	No	No	No	
Max. R/W Performance (MB/sec)	560/500	560/520	560/510	560/505	265/125	270/185	275/195	
Standard Operating Temp. (°C)	0 ~ +70							
Wide Temp. (°C)	-40 ~ +85							
MTBF (Hours)	>3,000,000							
Recommended Applications	General Medical Applications					Mobile Diagnostic Machine	X-ray Machine	

* Not supported on 16GB



Model	PV210-M280	PV220-M280	PV25P-M280	PH250-M280	PT180-M280	SH250-M242	CH120-MSD
Features	High Performance, High Capacity		DataDefender™, CorePower	SLC-liteX, DataDefender™, TCG Opal 2.0	AES 256 bit Encryption, End-to-End Data Protection	High Endurance w/ SLC-liteX Technologies (Reaching up to 100,000 P/E cycles)	
Form Factor	M.2 2280	M.2 2280	M.2 2280	M.2 2280	M.2 2280	M.2 2242	Micro SD
Interface	PCIe Gen3 x4	PCIe Gen3 x4	PCIe Gen4x4	PCIe Gen4x4	PCIe Gen4x4	SATA 3.2 (6Gb/s)	SD 6.1
Connector	M.2 M Key	M.2 M Key	Double-sided: M.2 2280 M key	M.2 M Key	M.2 M Key	M.2 B & M key	-
NAND Flash Type	3D TLC						
Capacity	480GB~1920GB	120GB~1920GB	240~3840 GB	160~640 GB	256 GB~4 TB	10~160 GB	16~128 GB
External DRAM	Yes	No	No	No	No	No	-
Max. R/W Performance (MB/sec)	3540/2675	2390/2205	3325/3020	1740/1530	5055/3915	560/520	90/80
Standard Operating Temp. (°C)	0 ~ +70	0 ~ +70	0 ~ +70	0 ~ +70	0 ~ +70	0 ~ +70	-25 ~ +85
Wide Temp. (°C)	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85	-	-40 ~ +85	-40 ~ +85
MTBF (Hours)	>3,000,000						
Recommended Applications	Computer Tomography, Precise Diagnostic Equipment					Ultrasound	Respirator, ECG

Recommended Industrial DRAM Solutions



Module Type	SODIMM	RDIMM	ECC UDIMM	ECC SODIMM	VLP ECC UDIMM	VLP ECC SODIMM
Memory Technology	DDR4					
Frequency	2133/2400/2666/2933/3200					
Density	2GB/4GB/8GB/16GB/32GB	4GB/8GB/16GB/32GB/64GB	4GB/8GB/16GB/32GB	4GB/8GB/16GB/32GB	4GB/8GB/16GB/32GB	4GB/8GB
Voltage	1.2v	1.2v	1.2v	1.2v	1.2v	1.2v
Pin Count	260-Pin	288-Pin	288-Pin	260-Pin	288-Pin	260-Pin
Width	64-Bit	72-Bit	72-Bit	72-Bit	72-Bit	72-Bit
PCB Height	1.18"	1.23"	1.23"	1.18"	0.738"	0.7"
Operating Temperature. (°C)	TC = 0 ~ +85	TC = 0 ~ +85	TC = 0 ~ +85	TC = 0 ~ +85	TC = 0 ~ +85	TC = 0 ~ +85

Value-added Technology

