

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	SV250-M280	SV250-M242	UH110-UFD1	UV110-UFD5	UV110-UFD1
Features	High Endurance w/ Smart Read Refresh™ & CoreSnapshot Technologies			High Endurance	ESD Protection	Bidirectional Security Identification
Form Factor	2.5"	M.2 2280	M.2 2242	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)	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	USB Type A Plug	USB Type A Plug	USB Type A Plug
NAND Flash Type	3D TLC					
Capacity	30~960 GB	30~960 GB	30~480 GB	16~64GB	64~256 GB	16~256 GB
External DRAM	No	No	No	No	No	No
Max. R/W Performance (MB/sec)	560/520	560/520	560/515	265/125	255/120	260/125
Standard Operating Temp. (°C)	0 ~ + 70	0 ~ + 70	0 ~ + 70	0 ~ + 70	0 ~ + 70	0 ~ + 70
Wide Temp. (°C)	- 40 ~ + 85	- 40 ~ + 85	- 40 ~ + 85	- 40 ~ + 85 *	- 40 ~ + 85	- 40 ~ + 85 *
MTBF (Hours)	>3,000,000	>3,000,000	>3,000,000	>3,000,000	>3,000,000	>3,000,000
Recommended Applications	General Medical Applications			Mobile Diagnostic Machine		X-ray Machine

* Not supported on 16GB

							
Model	PV210-M280	PV220-M280	PV910-M280	SH250-M242	CH710-CF	CH120-MSD	CV120-MSD
Features	High Performance, High Capacity		Signed Firmware	High Endurance w/ SLC-liteX Technologies (Reaching up to 100,000 P/E cycles)		High Endurance	
Form Factor	M.2 2280	M.2 2280	M.2 2280	M.2 2242	CompactFlash Type I	Micro SD	Micro SD
Interface	PCIe Gen3 x4	PCIe Gen3 x4	PCIe Gen3 x2	SATA 3.2 (6Gb/s)	PC Card Memory Mode; PC Card I/O Mode; True IDE Mode	SD 6.1	SD 6.1
Connector	M.2 M Key	M.2 M Key	M.2 B & M key	M.2 B & M key	50-pin	-	-
NAND Flash Type	3D TLC						
Capacity	240~1920 GB	120~1920 GB	120~960 GB	10~160 GB	8~64 GB	16~128 GB	64~256 GB
External DRAM	Yes	No	No	No	No	-	-
Max. R/W Performance (MB/sec)	3100/2630	1695/1685	1775/1295	560/520	115/80	90/80	90/85
Standard Operating Temp. (°C)	0 ~ + 70	0 ~ + 70	0 ~ + 70	0 ~ + 70	0 ~ + 70	-25 ~ + 85	-25 ~ + 85
Wide Temp. (°C)	- 40 ~ + 85	- 40 ~ + 85	- 40 ~ + 85	- 40 ~ + 85	- 40 ~ + 85	- 40 ~ + 85	- 40 ~ + 85
MTBF (Hours)	>3,000,000	>3,000,000	>3,000,000	>3,000,000	>1,000,000	>3,000,000	>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/B32GB/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"
Operation Temperature. (°C)	TC = 0 ~ + 85	TC = 0 ~ + 85	TC = 0 ~ + 85	TC = 0 ~ + 85	TC = 0 ~ + 85	TC = 0 ~ + 85
Value-added Technology	  	   	   	   	   	   