

Featured Technologies for Transportation Devices



Anti-Sulfuration

Apacer's world's first patented anti-sulfuration DRAM modules and anti-sulfuration SSDs with the industry's highest level of anti-corrosion ANSI/ISA 71.04 G3 Certification can meet the needs of industrial products facing harsh environments.



SLC-liteX

Apacer's 3D NAND SLC-liteX technology breaks through the limitations of existing technology and provides up to 100,000 P/E cycles, which is 33 times more than MLC or industrial 3D TLC.



- CorePower DataDefender™
- Longevity
- · Over-provisioning · SLC-liteX
- Fixed BOM
- · 6+6 PCN/EOL Policy



- Nano Coating (IP57) 30u Gold Finger



Value-added **Applications**

- · Double-barreled Solution - CoreAnalyzer2

 - SSDWidget 2.0

Recommended Industrial SSD Solutions











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Model	PV220-M280	SV250-M280	SV24P-M280	SV24P-25	PH920-M280	SH250-25	CH120-MSD
Features	Anti-Su	ulfuration	ration Corel			SLC-liteX	
Form Factor	M.2 2280	M.2 2280	M.2 2280	2.5"	M.2 2280	2.5"	microSD
Interface	PCIe Gen3 x4	SATA 3.2 (6Gb/s)	SATA 3.2 (6Gb/s)	SATA 3.2 (6Gb/s)	PCIe Gen3 x4	SATA 3.2 (6Gb/s)	SD 6.1
Connector	M.2 M Key	M.2 B & M key	M.2 B & M key	(7+15) pin	M.2 M Key	(7+15) pin	-
NAND Flash Type				3D TLC			
Capacity	120~1920 GB	120~1920 GB	240~1920 GB	240~1920 GB	160~640 GB	40~640 GB	16~128 GB
External DRAM	No	No	Yes	Yes	No	No	-
Max. R/W Performance (MB/sec)	2390/2205	560/470	560/510	560/510	3530/2735	550/495	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	- 40 ~ + 85
MTBF (Hours)	>3,000,000	>3,000,000	>3,000,000	>3,000,000	>3,000,000	>3,000,000	>3,000,000
Recommended Applications	Crane Truck, Excavator, Vehicles in Harsh Environments		Server		Passenger Information System, Surveillance		Navigation

Recommended Industrial DRAM Solutions

Anti-Sulfuration Memory Modules

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Module Type	Anti-Sulfuration UDIMM	Anti-Sulfuration SODIMM	Anti-Sulfuration RDIMM	Anti-Sulfuration ECC UDIMM	Anti-Sulfuration ECC SODIMM
Memory Technology			DDR5		
requency	4800/5600	4800/5600	4800	4800/5600	4800/5600
Density	8GB/16GB/32GB	8GB/16GB/32GB	16GB/32GB	16GB/32GB	16GB/32GB
Voltage	1.1v	1.1v	1.1v	1.1v	1.1v
Pin Count	288-Pin	262-Pin	288-Pin	288-Pin	262-Pin
Vidth	64-Bit	64-Bit	80-Bit	72-Bit	72-Bit
PCB Height	1.23"	1.18"	1.23"	1.23"	1.18"
Operation Temperature (°C)	TC = 0 ~ + 85	TC = 0 ~ + 85	TC = 0 ~ + 85	TC = 0 ~ + 85	TC = 0 ~ + 85
			JF 30µ	№ 30h	Thermal Sold Figur
Value-added Technology	SOU Control Control Undertil	30µ Contamo Coating Underfill	Solder Gald Frigor	Sensor Gold Fayor	Thornel Gids Finger Conforma Lindontil

Rugged Memory Modules & VLP (Very Low Profile) Memory Modules

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Module Type	XR-DIMM	Rugged SODIMM	VLP UDIMM	VLP SODIMM	VLP RDIMM	VLP ECC UDIMM	VLP ECC SODIMM
Memory Technology	,			DDR4			
Frequency	2133/2400	2133/2400/2666/ 2933/3200	2133/2400/2666/2933/3200				
Density	8GB/16GB	8GB/16GB/32GB	4GB/8GB/ 16GB/32GB	4GB/8GB	4GB/8GB/ 16GB/32GB	4GB/8GB/ 16GB/32GB	4GB/8GB
Voltage	1.2v	1.2v	1.2v	1.2v	1.2v	1.2v	1.2v
Pin Count	300-Pin	260-Pin	288-Pin	260-Pin	288-Pin	288-Pin	260-Pin
Width	64-Bit / 72-Bit	64-Bit / 72-Bit	64-Bit	64-Bit	72-Bit	72-Bit	72-Bit
PCB Height	1.466"	1.377"	0.738"	0.709"	0.738"	0.738"	0.7"
Operation Temperature (°C)	TC = -40 ~ +85	TC = 0 ~ + 85 / - 40 ~ + 85	TC = 0 ~ + 85	TC = 0 ~ + 85	TC = 0 ~ + 85	TC = 0 ~ + 85	TC = 0 ~ + 85
Value-added	Transal Under I Coden	Trained Gald Finger Undertil	30µ Underfi	30µ Underfi	Thermal Support Cals Proper Underful	Thermal Sonsor Colds Finger Unidentil	Thermal Solutions Underful
Technology	₽ >	<u>¥</u>	<u>¥</u>	<u>¥</u>	<u> </u>		