

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.



Power Stability

- · CorePower
- DataDefender™



Longevity

- · Over-provisioning
 - · SLC-liteX
 - Fixed BOM
- · 6+6 PCN/EOL Policy



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.



Survivability

- · Anti-Sulfuration
- · Conformal Coating · Wide Temperature
- · Nano Coating (IP57) · 30μ Gold Finger



Value-added **Applications**

- · Double-barreled Solution
 - CoreAnalyzer2
 - SSDWidget 2.0

Recommended Industrial SSD Solutions



						- Nysico
Model	PV25P-M280	PV25P-M242	PT160-M280	PH180-uSSD	EH150-eMMC	CH120-MSD
Features	CorePower	CorePower	High-capacity	SLC-liteX	SLC-liteX	SLC-liteX
Form Factors	M.2 2280	M.2 2242	M.2 2280	PCIe BGA SSD (291 Ball)	153 Ball FBGA	microSD
Interface	PCle Gen4x4	PCIe Gen4x4	PCIe Gen4x4	PCIe Gen4x4	eMMC5.1 HS400	SD 6.1
Connector	Double-sided: M.2 2280 M key	Double-sided: M.2 2242 M key	Double-sided: M.2 2280-M key	-	-	-
NAND Flash Type	3D TLC	3D TLC	3D TLC	3D TLC	3D TLC	3D TLC
Capacity	240GB-960GB	240GB-960GB	4TB ~ 8TB	40GB~320GB	16GB~32GB	16GB~128GB
External DRAM	No	No	Yes	Yes	-	-
Max. R/W Performance (MB/sec)	3,325/3,020	3,740/2,945	6,970/2,310	5,000/4,300	320/245	90/80
Standard Operating Femp. (°C)	0 ~ + 70	0~+70	0 ~ + 70	-40 ~ + 85	-40 ~ + 85	-25 ~ + 85
Wide Temp. (°C)	-40 ~ + 85	-40 ~ + 85	$-40 \sim +85$ (8TB not supported)	-40 ~ + 85	-40 ~ + 85	-40 ~ + 85
MTBF (Hours)	>3,000,000	>3,000,000	>3,000,000	>1,500,000	-	>3,000,000
Recommendation Applications	Harsh environment with unstable power supplies		High capacity for data storage Surveillance System		On-board design for severe shock and vibration environments	

Recommended Industrial DRAM Solutions

Anti-Sulfuration Memory Modules

	2000	4 3 5	mundi-man	more server	-/EE-17/0
Module Type	Anti-Sulfuration UDIMM	Anti-Sulfuration SODIMM	Anti-Sulfuration RDIMM	Anti-Sulfuration ECC UDIMM	Anti-Sulfuration ECC SODIMM
Memory Technology			DDR5		
Frequency	4800/5600	4800/5600	4800/5600	4800/5600	4800/5600
Density	8GB/16GB/32GB/48GB	8GB/16GB/32GB/48GB	16GB/32GB	16GB/32GB/48GB	16GB/32GB/48GB
Voltage	1.1v	1.1v	1.1v	1.1v	1.1v
Pin Count	288-Pin	262-Pin	288-Pin	288-Pin	262-Pin
Width	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
Value-added Technology	30µ	30µ Jacobs Broteria	Towner Super	Some Garden	Tenent Super