Apacer

Industrial SSD & DRAM Solutions for Factory Automation Applications



Factory automation provides a compelling way to boost quality, efficiency, technologies to help ensure reliability, stability and data integrity.

Featured Technologies for Factory Automation Applications



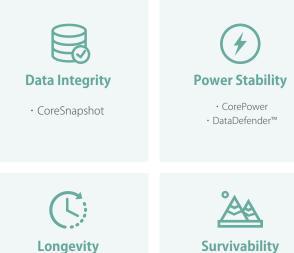
Anti-Sulfuration

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 over 33 times more than MLC or industrial 3D TI C.



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

Survivability

Anti-Sulfuration

Conformal Coating

Nano Coating (IP57)

- Sidefill
- Wide Temperature

Recommended Industrial SSD Solutions

		Agenar	Аданая	Аданая						
Model		SV240-25	SV25P-25	SV25V-25	PV250-M280	SV25P-M280	PV220-M242	SH250-M242	SV250-300	
Features		DataDefender	DataDefender, CorePower	DataDefender Plus	DataDefender, Sidefill	DataDefender, CorePower, Sidefill	DataDefender, Sidefill	DataDefender, High Endurance, SLC-liteX, Sidefill	DataDefender, Write Protect Switch	
Form Factor		2.5″	2.5″	2.5″	M.2 2280	M.2 2280	M.2 2242	M.2 2242	JEDEC MO-300	
Interface		SATA 3.2 (6Gb/s)	SATA 3.2 (6Gb/s)	SATA 3.2 (6Gb/s)	PCIe Gen4 x4	SATA 3.2 (6Gb/s)	PCIe Gen3 x4	SATA 3.2 (6Gb/s)	SATA 3.2 (6Gb/s)	
Connector		(7+15) pin male	(7+15) pin male	(7+15) pin male	M.2 M Key	M.2 B & M Key	M.2 M Key	M.2 B & M Key	52-pin mSATA	
NAND Flash Ty	pe	3D TLC								
Capacity		120~1920GB	120~960GB	120~960GB	240~3840GB	120~960GB	240~960GB	40~320GB	120~960GB	
External DRAM		Yes	No	No	No	No	No	No	No	
Max. R/W Perfe (MB/sec)	ormance	560/505	550/500	560/485	3700/3490	555/490	2390/2210	550/485	560/470	
Standard Operating Temp. (°C)		0~+70	0~+70	0~+70	240~3840GB: 0 ~ +70	0~+70	0~+70	0~+70	0~+70	
Wide Temp. (°C	C)	-40 ~ +85	-40 ~ +85	-40 ~ +85	240~1920GB: -40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85	
MTBF (Hours)		>3,000,000								
(50	AES256	Support	Support	Support	Support	Support	Support	Support	Support	
SED	TCG Opal 2.0	Support	-	-	-	Support	Support	Support	Support	
Firmware PLP		Support	Support	Support	Support	Support	Support	Support	Support	
Hardware PLP		-	Support	-	-	Support	-	-	-	
Recommended	d Applications	IPC	AGV, AMR	AGV, AMR, RPC, CNC System	AGV, AMR	Auto Inspection Equipment	Motor Automation	CNC System	Wire Processing System, Semiconductor Manufacturing Equipment	

		- Aparta Constantino Aparta	Apacer CF	Apacer Material Californi 6428	Topace 1	Apacer tonor 200 100 a con	D Apase	NE.
Model		PV25P-CFX	SV250-CFast	Industrial CF6A	CH110-SD	CH120-MSD	UV110-UFD5	UH110-UFM1
Features		High Endurance	DataDefender, Write Protect Switch	High Endurance	High Endurance, SLC-liteX	High Endurance, SLC-liteX	ESD Air ± 15KV; Contact ± 8KV Prevention	High Endurance, SLC-liteX
Form Factor		CFexpress 2.0 Type B	CFast	CompactFlash Type I	SDHC/SDXC	Micro SD	USB Flash Drive	USB Disk Module
Interface		PC Card Memory Mode; PC Card I/O Mode; True IDE Mode	SATA 3.2 (6Gb/s)	PC Card Memory Mode; PC Card I/O Mode; True IDE Mode	SD 4.0	SD 6.1	USB 3.2 Gen1	USB 2.0
Connector		-	(7+17) pin	50-pin	-	-	USB Type-A	10-pin USB (2 x 5 header)
NAND Flash	n Туре	3D TLC	3D TLC	SLC	3D TLC	3D TLC	3D TLC	3D TLC
Capacity		240~960GB	120~960GB	256MB ~ 32GB	SDHC: 8~64GB	16~128GB	128~256GB	32~64GB
External DR	RAM	No	No	No	No	No	No	No
Max. R/W Performance (MB/sec)		3740/2940	560/470	60/65	95/80	90/80	270/185	37/32
Standard Operating Temp. (°C)		0 ~ +70	0~+70	0~+70	-25 ~ +85	-25 ~ +85	0~+70	0~+70
Wide Temp	. (°C)	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85
MTBF (Hou	rs)	>3,000,000	>3,000,000	>2,000,000	>3,000,000	>3,000,000	>3,000,000	>3,000,000
SED	AES256	Support	Support	-	-	-	-	-
SED	TCG Opal 2.0	-	Support		-		-	-
Firmware P	LP	Support	Support	Support	Support	Support	-	-
Hardware PLP		Support	-	-	-	-	-	-
Recommen	ded Applications	Semiconductor Manufacturing Equipment, Factory Machine Controller	Factory Machine Controller	Semiconductor Manufacturing Equipment, Factory Machine Controller	CMC Machine, Plastic Injection Machine	Robot, Semiconductor Manufacturing Equipment, Inspection equipment	AIO Inspection System, Factory Machine	Welding, Solar Energy, Charging, Farming Ventilation

Recommended Industrial DRAM Solutions

	SSS . The sur				nonn ² -mass	100		1 33 9	
Module Type	UDIMM	SODIMM	ECC UDIMM	ECC SODIMM	UDIMM	SODIMM	ECC UDIMM	ECC SODIMM	
Memory Technology	DDR4	DDR4	DDR4	DDR4	DDR5	DDR5	DDR5	DDR5	
Frequency	2133/2400/2666/2933/3200				4800/5600				
Density	2GB/4GB/8GB/16GB/32GB		4GB/8GB/16GB/32GB		8GB / 16GB / 32GB		16GB / 32GB		
Voltage	1.2v	1.2v	1.2v	1.2v	1.1V	1.1V	1.1V	1.1V	
Pin Count	288-Pin	260-Pin	288-Pin	260-Pin	288-Pin	262-Pin	288-Pin	262-Pin	
Width	64-Bit	64-Bit	72-Bit	72-Bit	64-Bit	64-Bit	72-Bit	72-Bit	
PCB Height	1.23"	1.18"	1.23"	1.18"	1.23"	1.18"	1.23"	1.18"	
Operating / Wide Temperature. (°C)	TC= 0 to 85 / -40 to 85	TC= 0 to 85 / -40 to 85	TC= 0 to 85 / -40 to 85	TC= 0 to 85 / -40 to 85	TC=0 to 85 / -40 to 85	TC= 0 to 85 / -40 to 85	TC= 0 to 85 / -40 to 85	TC= 0 to 85 / -40 to 85	
Value-added Technology	No. browners	Control And	BOLI Barrier Langemenn	Ludari + + + +	30µ stringe * *	Lengtheren Conservation * *	BOU Bread Const	t ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	