







ATP Industrial Grade Flash Products and DRAM Modules

Comprehensive Product Portfolio, Engineered Specifically for Mission Critical Applications

DRAM Products

Product Portfolio	Category	Speed	Form Factor	Features
DDR3 	RDIMM	PC3-12800 PC3-10600 PC3-8500	<ul style="list-style-type: none"> Low Profile Very Low Profile(VLP) options (VLP : 0.72"~0.74" height) Ultra Low Profile(ULP) options (ULP : 0.7" height) 	<ul style="list-style-type: none"> Capacities supported from 1GB to 16GB Chipkill support High performance data rate up to 1600 MT/s Standard 1.5V and 1.35V low voltage options
	ECC UDIMM			
	UDIMM			
	SO-RDIMM			
	ECC SO-RDIMM			
	SO-UDIMM			
	mini-RDIMM			
ECC mini-UDIMM				
DDR2 	RDIMM	PC2-6200 PC2-5300 PC2-4200 PC2-3200	<ul style="list-style-type: none"> Low Profile Very Low Profile(VLP) options (VLP : 0.72"~0.74" height) 	<ul style="list-style-type: none"> Capacities supported from 512MB to 8GB Chipkill support Single, dual and quad rank options FB-DIMM Capacities supported from 1GB to 8GB Chipkill support Low power and low voltage options Apple FB-DIMM
	ECC UDIMM			
	UDIMM			
	SO-RDIMM			
	SO-CDIMM			
	SO-UDIMM			
	mini-RDIMM			
	FB-DIMM			
DDR1 	RDIMM	PC-3200 PC-2700 PC-2100	<ul style="list-style-type: none"> Low Profile Very Low Profile(VLP) options (VLP : 0.72"~0.74" height) 	<ul style="list-style-type: none"> Capacities supported from 256MB to 2GB Chipkill support
	ECC UDIMM			
	UDIMM			
	SO-RDIMM			
	SO-CDIMM			
SDRAM 	RDIMM	PC133 PC100	<ul style="list-style-type: none"> Low Profile Very Low Profile(VLP) options (VLP : 0.72"~0.74" height) 	<ul style="list-style-type: none"> Capacities from 256MB to 1GB Chipkill support Legacy system support
	ECC UDIMM			
	UDIMM			
	SO-UDIMM			

Product Portfolio	Category	Technology	Features
Industrial Grade Family 	SO-DIMM	DDR3 DDR2 DDR SDRAM	<ul style="list-style-type: none"> Extended temperature: -40°C ~ +85°C, -40°C to +105°C Fixed BOM and SPD For mission critical industrial applications
	Unbuffered DIMM		
	Registered DIMM		

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Industrial Grade Flash Products

Product	Dimension LxWxH (mm)	Flash Type	Density	Operating Temp. (°C)	Data Transfer Rate (Max)	Life Monitor	Power Protector	Secure Erase	NCQ	Trim
SATA										
Velocity M IV	70.0 X 100.1 X 9.3	MLC	60GB~480GB	0°C~70°C	Read: 500 MB/s Write: 480 MB/s	✓	Optional	✓	✓	✓
Velocity SI Pro	70.0 X 100.1 X 9.3	SLC	30GB~240GB	-40°C~85°C	Read: 500 MB/s Write: 480 MB/s	✓	✓	✓	✓	✓
SlimSATA	54.0 x 39.8 x 4.0	SLC	2GB~32GB	-40°C~85°C	Read: 116 MB/s Write: 102 MB/s	✓	16GB/32GB	✓	—	✓
SATA DOM (Vertical)	35.5 x 33.1 x 7.6	SLC	2GB~16GB	-40°C~85°C	Read: 61 MB/s Write: 54 MB/s	✓	✓	✓	—	✓
SATA DOM (Horizontal)	31.6 x 30.0 x 10.8	SLC	2GB~16GB	-40°C~85°C	Read: 60 MB/s Write: 55 MB/s	✓	✓	✓	—	✓
mSATA ES: 2011 Q3	51.0 x 30.0 x 5.0	SLC	4GB~64GB	-40°C~85°C	TBD	✓	✓	✓	✓	✓
PATA ES: 2011 Q3	40Pin 57.5 x 27.3 x 8.3 44Pin 50.5 x 25.5 x 6.7	SLC	2GB~16GB	-40°C~85°C	TBD	✓	✓	✓	—	✓
CFast ES: 2011 Q3 <small>Image shown is a representation only</small>	36.4 x 42.8 x 3.3	SLC	2GB~32GB	-40°C~85°C	TBD	✓	✓	✓	✓	✓
CF										
Compact Flash	36.4 x 42.8 x 3.3	SLC	128MB~4GB	-40°C~85°C	Read: 52.92 MB/s Write: 38.79 MB/s	✓	—	✓	—	—
			8GB~32GB	-40°C~85°C	TBD	✓	✓	✓	—	—
USB Drive										
eUSB	2.54mm 36.9 x 26.6 x 9.65 2.00mm 36.9 x 26.6 x 5.9	SLC	2GB~16GB	-40°C~85°C	Read: 32 MB/s Write: 25 MB/s	✓	2GB~8GB	✓	—	—
eUSB (SIP)	28.2 x 15.3 x 6.2	SLC	2GB/4GB	-40°C~85°C	Read: 30 MB/s Write: 16 MB/s	✓	—	✓	—	—
USB Drive	36.1 x 12.1 x 4.5	SLC	256MB~4GB	-40°C~85°C	Read: 35 MB/s Write: 30 MB/s	✓	—	✓	—	—
SD Cards										
SD / SDHC	32 x 24 x 2.1	SLC	128MB~16GB	-40°C~85°C	Read: 18 MB/s Write: 13 MB/s	✓	—	—	—	—
miniSD / miniSDHC	21.5 x 20 x 1.4	SLC	128MB~4GB	-40°C~85°C	Read: 18 MB/s Write: 13 MB/s	✓	—	—	—	—
microSD / microSDHC	15 x 11 x 1	SLC	128MB~8GB	-40°C~85°C	Read: 18 MB/s Write: 13 MB/s	✓	—	—	—	—

Technology & Features



Life Monitor

- Offers flash health status feedback to the host.
- Prevents data failure by proactively detecting the percentage of remaining life in the storage device, allowing users time for safe storage retirement and replacement.

Power Protector

- Back up power circuit ensures reliable controller and NAND flash operation during a power failure.
- Stand alone hardware based design supports multiple form factors (eUSB, CF, SSD), wide temp. ranges and longer life spans, exceeding the performance and reliability offered by existing supercap designs.

Secure Erase

- Initiates a block-by-block, data pattern write operation to systematically eliminate any trace of the original data.
- The ATP software application ensures that the declassification becomes quicker, easier and more effective for SSD's and flash based storage devices.