

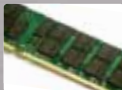





ATP Industrial Grade Flash Products and DRAM Modules

Targeted Product Portfolio, Engineered Specifically for Your Mission Critical Applications



DRAM Modules

Product	Category	Speed (MHz)	Form Factor	Features
 DDR4	RDIMM RDIMM VLP UDIMM ECC SO-DIMM ECC	2133	<ul style="list-style-type: none"> Low profile Very Low Profile (VLP) options (VLP: 0.74" height) 	<ul style="list-style-type: none"> Capacities: 4GB to 16GB Chipkill support High performance data rate up to 3200 MT/s
 DDR3	LRDIMM RDIMM UDIMM / UDIMM ECC SO-RDIMM / SO-DIMM ECC SO-DIMM mini-RDIMM mini-UDIMM ECC	1866 1600 1333 1066	<ul style="list-style-type: none"> Low profile Very Low Profile (VLP) options (VLP: 0.74" height) Ultra Low Profile (ULP) options (ULP: 0.7"~0.72" height) 	<ul style="list-style-type: none"> Capacities: 2GB to 32GB 32GB to 64GB(LRDIMM) Chipkill support High performance data rate up to 1866 MT/s Standard 1.5 V and 1.35 V low voltage options
 DDR2	RDIMM UDIMM / UDIMM ECC SO-RDIMM SO-CDIMM SO-DIMM mini-RDIMM FB-DIMM*	800 667 533 400	<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: 1GB to 8GB Chipkill support Single, dual and quad rank options <p>FBDIMM</p> <ul style="list-style-type: none"> Low power and low voltage options Apple FB-DIMM
 DDR*	UDIMM / UDIMM ECC SO-CDIMM SO-DIMM	400 333 266	<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: 512MB to 1GB Chipkill support
 SDRAM*	RDIMM UDIMM / UDIMM ECC SO-UDIMM	PC 133 PC 100	<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: 256MB to 1GB Chipkill support Legacy system support
Product Portfolio	Category	Generation	Features	
 Industrial Grade Family	SO-DIMM UDIMM RDIMM	DDR4 DDR3 DDR2 DDR* SDRAM*	<ul style="list-style-type: none"> Extended temperature: -40°C ~ +85°C Controlled BOM and SPD For mission critical industrial applications 	

* Available on a project basis.

www.atpinc.com

All brands and products are the property and trademarks of their respective owners.
OPL1114

ATP TAIWAN

TEL: +886-2-2659-6368
FAX: +886-2-2659-4982
sales-apac@atpinc.com

ATP USA

TEL: +1-408-732-5000
FAX: +1-408-732-5055
sales@atpinc.com

ATP EUROPE

TEL: +31-88-287-0000
FAX: +31-88-287-0001
sales-europe@atpinc.com

ATP GERMANY

TEL: +49-89-374-9999-0
FAX: +49-89-374-9999-29
sales-europe@atpinc.com

ATP JAPAN

TEL: +81-3-6206-8097
FAX: +81-3-6206-8098
sales-japan@atpinc.com
www.atpinc.co.jp

ATP CHINA

TEL: +86-21-5080-2220
FAX: +86-21-5080-2219
sales@cn.atpinc.com
www.atpinc.com.cn



Flash Products

Product	Embedded Modules												Memory Cards								SSD 2.5"				USB Drives		
	Slim SATA MO-297A	SATA DOM						mSATA MO-300A	mSATA mini MO-300B	eUSB	SD/SDHC		microSD/ microSDHC		CFast	CF	Velocity SI Pro	Velocity M IV*	Velocity SI Lite	Velocity XE	NANODURA*	Endura*					
		Vertical*	Horizontal*	SD/SDHC	UHS-I SDHC	microSD/ microSDHC	UHS-I microSDHC																				
Product Image																											
Dimensions (LxWxH mm)	54.0 x 39.0 x 4.0		35.5 x 33.1 x 7.6		35.1 x 30.0 x 14.0		50.8 x 29.8 x 3.7		26.8 x 29.8 x 3.7	2.54mm 36.9 x 26.6 x 11.5 2.00mm 36.9 x 26.6 x 8.4		32.0 x 24.0 x 2.1		15.0 x 11.0 x 1.0		42.8 x 36.4 x 3.6		42.8 x 36.4 x 3.3		100.0 x 69.9 x 9.5		100.0 x 69.9 x 9.2		34 x 12.2 x 4.5	33.7 x 17.5 x 9.4		
Densities	SLC	aMLC	MLC*	SLC	MLC*	SLC	MLC*	SLC	aMLC	MLC*	SLC	SLC	MLC*	SLC	MLC	SLC	MLC	SLC	MLC*	SLC	MLC*	SLC	MLC	SLC	aMLC	SLC	
Operating Temp.	-40°C~ +85°C	0°C~ +70°C	0°C~ +70°C	-40°C~ +85°C	0°C~ +70°C	-40°C~ +85°C	0°C~ +70°C	-40°C~ +85°C	0°C~ +70°C	0°C~ +70°C	-40°C~ +85°C	-40°C~ +85°C	0°C~ +70°C	-40°C~ +85°C	-25°C~ +85°C	-40°C~ +85°C	-25°C~ +85°C	-40°C~ +85°C	0°C~ +70°C	-40°C~ +85°C	0°C~ +70°C	-40°C~ +85°C	0°C~ +70°C	-40°C~ +85°C	0°C~ +70°C	-40°C~+85°C	
Data Transfer Rate (Read/Write,MB/s, max.)	R:80 W:65	R:250 W:180	R:250 W:85	R:80 W:65	R:180 W:40	R:80 W:65	R:180 W:40	R:170 W:120	R:250 W:180	R:250 W:85	R:80 W:65	R:30 W:27	R:30 W:22	R:20 W:18	R:84.8 W:26.3	R:20 W:18	R:84.8 W:26.3	R:80 W:65	R:180 W:50	R:61 W:55	R:110 W:46	R:505 W:530	R:480 W:340	R:182 W:133	R:250 W:180	R:21 W:16	
TBW** (max.)	640 TB	512 TB	76.8 TB	320 TB	9.6 TB	320 TB	9.6 TB	1,280 TB	512 TB	76.8 TB	640 TB	320 TB	9.6 TB	384 TB	9.6 TB	96 TB	9.6 TB	640 TB	38 TB	640 TB	38.4 TB	8,000 TB	480 TB	768 TB	512 TB	96 TB	
PowerProtector (H/W)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Optiona	F/W	F/W	F/W	F/W	✓	✓	✓	-	Optional	Optional	✓	-	-	
Secure Erase (S/W)***	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Life Monitor (S/W)***	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

* Available on a project basis.

** All TBW data listed are under random write value in each product line. The TBW data are subject to change by density, configuration and customers' applications.

*** ATP software support for demo use only.