

# DDR4 2133 R-DIMM/VLP R-DIMM/ECC U-DIMM/ECC SO-DIMM

Available in densities ranging from 4GB to 16GB per module and clocked up to 2133MHz for a maximum 17GB/s bandwidth, ADATA DDR4 server memory modules are all certified Intel® Haswell-EP compatible to ensure superior performance. Products ship in four convenient form factors to accommodate diverse needs and applications: R-DIMM and ECC U-DIMM for servers and enterprises, VLP R-DIMM for high-end blade servers, and ECC SO-SIMM for micro servers. Running at a mere 1.2V, ADATA DDR4 memory modules use 20% less energy than conventional lower-performance DDR3 modules, in effect delivering more computational power for less energy draw. ADATA DDR4 server memory modules are an excellent choice for users looking to balance performance, environmental responsibility, and cost effectiveness.



## Features

- High speed up to 2133MHz
- Transfer bandwidths up to 17GB/s
- Energy efficient: save up to 20% compared to DDR3
- 8-layer PCB provides improved signal transfer and system stability
- PCB gold plating: 30u and up
- Intel Haswell-EP compatible for extreme performance

### ECC U-DIMM



### R-DIMM



### VLP R-DIMM



### ECC SO-DIMM



## Specifications

Type	ECC-DIMM	R-DIMM	VLP R-DIMM	ECC SO-DIMM
Form factor	Standard (1.18" height)	Standard (1.18" height)	Very low profile (0.7" height)	Standard (1.18" height)
Suitable for	Enterprise servers / data centers	Enterprise servers / data centers	Blade servers	Micro servers
Interface	288-pin	288-pin	288-pin	260-pin
Capacity	4GB / 8GB / 16GB	4GB / 8GB / 16GB	4GB / 8GB / 16GB	4GB / 8GB
Rank	Single / dual	Single / dual	Single / dual	Single / dual
Speed	2133MHz			
VDD voltage	1.2V			
CAS latency	CL15			
Refresh	Auto-refresh / self-refresh			
Operating temperature	0°C-85°C			
RoHS	Yes			
Standard	JEDEC			
Intel platform	Haswell-EP			
Warranty	Limited lifetime warranty			

## Ordering Information

Product	Capacity	Rank	Voltage	Data rate	Speed	CL	Part number
ECC-DIMM	4GB	Single	1.2V	2133MT/s	PC4-17000	CL = 15	AD4E2133W4G15
	8GB	Dual	1.2V	2133MT/s	PC4-17000	CL = 15	AD4E2133W8G15
	16GB	Dual	1.2V	2133MT/s	PC4-17000	CL = 15	AD4E2133316G15
R-DIMM	4GB	Single	1.2V	2133MT/s	PC4-17000	CL = 15	AD4R2133W4G15
	8GB	Dual	1.2V	2133MT/s	PC4-17000	CL = 15	AD4R2133W8G15
	8GB	Single	1.2V	2133MT/s	PC4-17000	CL = 15	AD4R2133Y8G15
	16GB	Dual	1.2V	2133MT/s	PC4-17000	CL = 15	AD4R2133Y16G15
	16GB	Dual	1.2V	2133MT/s	PC4-17000	CL = 15	AD4R2133316G15
VLP R-DIMM	4GB	Single	1.2V	2133MT/s	PC4-17000	CL = 15	AD4V2133W4G15
	8GB	Dual	1.2V	2133MT/s	PC4-17000	CL = 15	AD4V2133W8G15
	8GB	Single	1.2V	2133MT/s	PC4-17000	CL = 15	AD4V2133Y8G15
	16GB	Dual	1.2V	2133MT/s	PC4-17000	CL = 15	AD4V2133Y16G15
	16GB	Dual	1.2V	2133MT/s	PC4-17000	CL = 15	AD4V2133316G15
ECC SO-DIMM	4GB	Single	1.2V	2133MT/s	PC4-17000	CL = 15	AD4B2133W4G15
	8GB	Dual	1.2V	2133MT/s	PC4-17000	CL = 15	AD4B2133W8G15
	16GB	Dual	1.2V	2133MT/s	PC4-17000	CL = 15	AD4B2133316G15