

# DDR4 2400 R-DIMM / VLP R-DIMM / ECC U-DIMM / ECC SO-DIMM / U-DIMM / SO-DIMM

Available in densities ranging from 4GB to 16GB per module and clocked up to 2400MHz 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, ECC SO-SIMM for micro servers, U-DIMM for desktop and SO-DIMM for notebook. 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 memory modules are an excellent choice for users looking to balance performance, environmental responsibility, and cost effectiveness.



## Features

- High speed up to 2400MHz
- 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 (Without U/SO DIMM)
- Intel Haswell-EP compatible for extreme performance

**ECC U-DIMM**



**ECC SO-DIMM**



**R-DIMM**



**VLP R-DIMM**



**U-DIMM**



**SO-DIMM**



## Specifications

Type	ECC-DIMM	R-DIMM	VLP R-DIMM	ECC SO-DIMM	U-DIMM	SO-DIMM
<b>Form factor</b>	Standard (1.18" height)	Standard (1.18" height)	Very low profile (0.7" height)	Standard (1.18" height)	Standard (1.23" height)	Standard (1.18" height)
<b>Suitable for</b>	Enterprise servers / data centers	Enterprise servers / data centers	Blade servers	Micro servers	Desktop/ Motherboard	Notebook/ Ultrabooks/ All in one
<b>Interface</b>	288-pin	288-pin	288-pin	260-pin	288-pin	260-pin
<b>Capacity</b>	4GB / 8GB / 16GB	4GB / 8GB / 16GB	4GB / 8GB /16GB	4GB / 8GB / 16GB	4GB / 8GB / 16GB	4GB / 8GB / 16GB
<b>Rank</b>	Single / Dual	Single / Dual	Single / Dual	Single / Dual	Single / Dual	Single / Dual
<b>Speed</b>	2400/2133MHz					
<b>VDD voltage</b>	1.2V					
<b>CAS latency</b>	CL17					
<b>Refresh</b>	Auto-refresh / self-refresh					
<b>Operating temperature</b>	0°C to 85°C					
<b>RoHS</b>	Yes					
<b>Standard</b>	JEDEC					
<b>Intel platform</b>	Haswell-EP					
<b>Warranty</b>	Limited lifetime warranty					

## Ordering Information

Product	Capacity	Rank	Voltage	Data Rate	Speed	CL	Part Number
ECC-DIMM	4GB	Single	1.2V	2400MT/s	PC4-19200	CL = 17	AD4E2400W4G17
	8GB	Single	1.2V	2400MT/s	PC4-19200	CL = 17	AD4E240038G17
	16GB	Dual	1.2V	2400MT/s	PC4-19200	CL = 17	AD4E2400316G17
R-DIMM	4GB	Single	1.2V	2400MT/s	PC4-19200	CL = 17	AD4R2400W4G17
	8GB	Dual	1.2V	2400MT/s	PC4-19200	CL = 17	AD4R2400W8G17
	8GB	Single	1.2V	2400MT/s	PC4-19200	CL = 17	AD4R240038G17
	16GB	Dual	1.2V	2400MT/s	PC4-19200	CL = 17	AD4R2400316G17
VLP R-DIMM	4GB	Single	1.2V	2400MT/s	PC4-19200	CL = 17	AD4V2400W4G17
	8GB	Dual	1.2V	2400MT/s	PC4-19200	CL = 17	AD4V2400W8G17
	8GB	Single	1.2V	2400MT/s	PC4-19200	CL = 17	AD4V240038G17
	16GB	Dual	1.2V	2400MT/s	PC4-19200	CL = 17	AD4V2400316G17
ECC SO-DIMM	4GB	Single	1.2V	2400MT/s	PC4-19200	CL = 17	AD4B2400W4G17
	8GB	Single	1.2V	2400MT/s	PC4-19200	CL = 17	AD4B240038G17
	16GB	Dual	1.2V	2400MT/s	PC4-19200	CL = 17	AD4B2400316G17
	4GB	Single	1.2V	2400MT/s	PC4-19200	CL = 17	AD4U2400W4G17

<b>U-DIMM</b>	8GB	Single	1.2V	2400MT/s	PC4-19200	CL = 17	AD4U240038G17
	16GB	Dual	1.2V	2400MT/s	PC4-19200	CL = 17	AD4U2400316G17
<b>SO-DIMM</b>	4GB	Single	1.2V	2400MT/s	PC4-19200	CL = 17	AD4S2400W4G17
	8GB	Single	1.2V	2400MT/s	PC4-19200	CL = 17	AD4S240038G17
	16GB	Dual	1.2V	2400MT/s	PC4-19200	CL = 17	AD4S2400316G17