

# Great value DDR2 for desktops and notebooks: U-DIMM/SO-DIMM

ADATA 800MHz/667MHz DDR2 memory is available in U-DIMM and SO-DIMM form factors, accommodating desktops and notebooks. Modules deliver double data rate SDRAM bolstered by FBGA (Fine-pitch Ball Grid Array) packaging on a 240-pin/204-pin (U-DIMM/SO-DIMM) glass-epoxy printed circuit board. Running at 1.8V and 800MHz, transmission bandwidth reaches 6,400MB/s in the PC2-6400 specification. With 667MHz clocks, transmission bandwidth goes up to 5,300MB/s in the PC2-5300 specification.



## Features

- High speed up to 800MHz
- Transfer bandwidths up to 6.4GB/s
- 6-layer PCB provides improved signal transfer and system stability

### U-DIMM



### SO-DIMM



## Specifications

Type	DDR2 800 U-DIMM	DDR2 667 U-DIMM	DDR2 667 SO-DIMM	DDR2 800 SO-DIMM
Form factor	Standard	Standard	Standard	Standard
Suitable for	Desktop	Desktop	Notebook	Notebook
Interface	240-pin	240-pin	200-pin	200-pin
Capacity	1GB/2GB	1GB/2GB	1GB/2GB	1GB/2GB
Rank	Single / Dual	Single / Dual	Single / Dual	Single / Dual
Speed	800MHz	667MHz	800MHz	667MHz
VDD voltage	1.8V			
CAS latency	CL5			
Refresh	Auto-refresh / self-refresh			
Operating temperature	0°C-85°C			
RoHS	Yes			
Standard	JEDEC			
Warranty	Limited lifetime warranty			

## Ordering Information

Product	Capacity	Rank	Voltage	Data rate	Speed	CL	Part number
DDR2 800 U-DIMM	1GB	Single	1.8V	800MT/s	PC2-6400	CL = 5	AD2U800B1G5
	2GB	Dual	1.8V	800MT/s	PC2-6400	CL = 5	AD2U800B2G5
DDR2 667 U-DIMM	1GB	Single	1.8V	667MT/s	PC2-5300	CL = 5	AD2U667B1G5
	2GB	Dual	1.8V	667MT/s	PC2-5300	CL = 5	AD2U667B2G5
DDR2 800 SO-DIMM	1GB	Single	1.8V	800MT/s	PC2-6400	CL = 5	AD2S800B1G5
	2GB	Dual	1.8V	800MT/s	PC2-6400	CL = 5	AD2S800B2G5
DDR2 667 SO-DIMM	1GB	Single	1.8V	667MT/s	PC2-5300	CL = 5	AD2S667B1G5
	2GB	Dual	1.8V	667MT/s	PC2-5300	CL = 5	AD2S667B2G5

# DDR3L for every need: U-DIMM/VLP, U-DIMM/R-DIMM/VLP, R-DIMM/SO-DIMM

Premier Series DDR3L memory modules offer multiple form factors for various installation needs. All run at a reduced 1.35V compared to 1.5V on standard DDR3, with speeds up to 1600MHz. Whether in standard U-DIMM, very low profile modules (VLP), or small outline modules (SO-DIMM) for notebooks, all implement cutting edge technology that enables remarkable memory quality, stability, and reliability. All modules are produced in accordance with JEDEC and RoHS design and production standards, guaranteeing compatibility with every major computing platform. Each is also made with environmental protection and preservation in mind, and includes a lifetime ADATA warranty.



## Features

- High speed up to 1600MHz
- Transfer bandwidths up to 12.8GB/s
- Energy efficient: save up to 10% compared to DDR3
- 6-layer PCB provides improved signal transfer and system stability

### U-DIMM



### VLP U-DIMM



### R-DIMM



### VLP R-DIMM



### SO-DIMM



## Specifications

Type	U-DIMM	VLP U-DIMM	R-DIMM	VLP R-DIMM	SO-DIMM
Form factor	Standard (1.18" height)	Standard (1.18" height)	Standard (1.18" height)	Very low profile (0.7" height)	Standard (1.18" height)
Suitable for	Desktop	Desktop / Thin client	Enterprise servers / data centers	Blade servers	Notebook
Interface	240-pin	240-pin	240-pin	240-pin	204-pin
Capacity	2GB/4GB/8GB	4GB/8GB	4GB/8GB/16GB	4GB/8GB	2GB/4GB/8GB
Rank	Single / Dual	Single / Dual	Single / Dual	Single / Dual	Single / Dual
Speed	Up to 1600MHz				
VDD voltage	1.35V				
CAS latency	CL11				
Refresh	Auto-refresh / self-refresh				
Operating temperature	0°C-85°C				
RoHS	Yes				
Standard	JEDEC				
Warranty	Limited lifetime warranty				

## Ordering Information

Product	Capacity	Rank	Voltage	Data rate	Speed	CL	Part number
U-DIMM	2GB	Single	1.35V	1600MT/s	PC3L-12800	CL = 11	ADDU160022G11
	4GB	Single	1.35V	1600MT/s	PC3L-12800	CL = 11	ADDU1600W4G11
	8GB	Dual	1.35V	1600MT/s	PC3L-12800	CL = 11	ADDU1600W8G11
VLP U-DIMM	4GB	Single	1.35V	1600MT/s	PC3L-12800	CL = 11	ADDX1600W4G11
	8GB	Dual	1.35V	1600MT/s	PC3L-12800	CL = 11	ADDX1600W8G11
R-DIMM	4GB	Single	1.35V	1600MT/s	PC3L-12800	CL = 11	ADDR1600W4G11
	8GB	Dual	1.35V	1600MT/s	PC3L-12800	CL = 11	ADDR1600W8G11
	16GB	Dual	1.35V	1600MT/s	PC3L-12800	CL = 11	ADDR1600Y16G11
VLP R-DIMM	4GB	Single	1.35V	1600MT/s	PC3L-12800	CL = 11	ADDV1600W4G11
	8GB	Dual	1.35V	1600MT/s	PC3L-12800	CL = 11	ADDV1600W8G11
SO-DIMM	2GB	Single	1.35V	1600MT/s	PC3L-12800	CL = 11	ADDS160022G11
	4GB	Single	1.35V	1600MT/s	PC3L-12800	CL = 11	ADDS1600W4G11
	8GB	Dual	1.35V	1600MT/s	PC3L-12800	CL = 11	ADDS1600W8G11

# Premier DDR4 2666 Unbuffered DIMM

Premier DDR4 2666 U-DIMM represents a new and appealing desktop memory upgrade option, with optimized support for the latest Intel processor and chipset platforms delivering high performance. Meticulous compliance with JEDEC DDR4 specifications means fast clock frequencies up to 2666MHz combined with 20% power draw savings compared to DDR3. Premier DDR4 2666 modules therefore boost both performance and environmental conservation.



## Features

- High speed up to 2666MHz
- Transfer bandwidth up to 21.3GB/s
- Energy efficient: saves 20% power compared to DDR3
- 8-layer PCB provides improved signal transfer and system stability
- Supports Intel Skylake-X and Kaby Lake-X CPU

## Specifications

- For desktop PCs
- Module: 288-pin DIMM
- Densities: 4GB / 8GB / 16GB
- Power supply: VDD and VDDQ=1.2V +0.06/-0.06V
- DRAM activation power supply: VPP = 2.5V (+0.25V / -0.125V)
- DRAM VCC: DDR4 STD 1.2V
- Operating temperature: 0°C to 85°C
- Warranty: limited lifetime



## Ordering Information

Capacity		Package	Model Number	EAN Code
4GB	512x16	Bulk	AD4U2666J4G19-B	N/A
		Single Tray	AD4U2666J4G19-S	4713218461490
		Retail	AD4U2666J4G19-R	4713218461506
		Dual Retail (4GBx2)	AD4U2666J4G19-2	4713218461513
4GB	512x8	Bulk	AD4U2666W4G19-B	N/A
		Single Tray	AD4U2666W4G19-S	4713218461520
		Retail	AD4U2666W4G19-R	4713218461537
		Dual retail(4GBx2)	AD4U2666W4G19-2	4713218461544
8GB		Bulk	AD4U2666W8G19-B	N/A
		Single Tray	AD4U2666W8G19-S	4713218461551
		Retail	AD4U2666W8G19-R	4713218461568
		Dual Retail(8GBx2)	AD4U2666W8G19-2	4713218461575
8GB	1024x8	Bulk	AD4U266638G19-B	N/A
		Single Tray	AD4U266638G19-S	4713218461582
		Retail	AD4U266638G19-R	4713218461599
		Dual retail(8GBx2)	AD4U266638G19-2	4713218461605
16GB		Bulk	AD4U2666316G19-B	N/A
		Single Tray	AD4U2666316G19-S	4713218461612
		Retail	AD4U2666316G19-R	4713218461629
		Dual retail(16GBx2)	AD4U2666316G19-2	4713218461636

## Package Information

Package Type	IC Qty	Bulk Weight (g)	Qty per tray (pcs)	Weight per tray (g)	Qty per sub carton	Weight per sub carton	Carton Dimensions (L x W x H/mm)	Cuft	Qty per carton (pcs)	Carton N.W. (g)	Carton G.W. (g)
Bulk	4	13	50	760	100	1,810	445 x 346 x 280	1.52	500	9,050	9,750
	8	16.4	50	1,028	100	2,404			500	11,320	12,183
	16	17.6	50	1,088	100	2,524			500	12,320	13,183

Package Type	IC Qty	Bulk Weight (g)	Single tray weight (g)	Single Tray Dimensions (L x W x H/mm)	Carton Dimensions (L x W x H/mm)	Cuft	Qty per carton (pcs)	Carton N.W. (g)	Carton G.W. (g)
Single Tray	4	13	25	170 x 55 x 9	545 x 255 x 278	1.37	300	7,500	8,254
	8	16.4	28				300	8,100	8,854
	16	17.6	30				300	8,700	9,454

Package Type	IC Qty	Bulk Weight (g)	Retail weight (g)	Retail Dimensions (L x W x H/mm)	Carton Dimensions (L x W x H/mm)	Cuft	Qty per carton (pcs)	Carton N.W. (g)	Carton G.W. (g)
Retail	4	13	45	133.5 x 165 x 19	606 x 345 x 150	1.11	100	4,500	5,554
	8	16.4	48				100	4,840	5,894
	16	17.6	50				100	4,960	6,014

Package Type	IC Qty	Bulk Weight (g)	Retail weight (g)	Retail Dimensions (L x W x H/mm)	Carton Dimensions (L x W x H/mm)	Cuft	Qty per carton (pcs)	Carton N.W. (g)	Carton G.W. (g)
Dual Retail	4	13	65	168 x 164 x 19	606 x 345 x 195	1.43	100	6,500	7,569
	8	16.4	72				100	7,180	8,249
	16	17.6	74				100	7,420	8,489