



Reliable solutions for today's business.  
**DRAM Module Solutions**

◆ Desktop Memory ◆ Notebook Memory ◆ Server Memory ◆ Fully Buffered DIMM

**Apacer**  
*Access the best*

Reliable solutions for today's business.

# **DRAM Module Solutions**

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# Why Apacer Memory Module

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## **Core Competence**

Apacer's DRAM module technology development is focused on vertically integrating know-how in the semiconductor industry, which allows it to manufacture memory modules that satisfy the requirements of both quality and performance, yet can be easily integrated into various platforms.

## **Premium Components**

Apacer uses only the most reliable and respected components in the industry. We use a controlled bill of materials for our system-specific module designs to provide optimum performance and functionality, ensuring survival in the most stringent conditions.

## **Guaranteed Solutions**

100% testing means that you get a proven module the first time, every time. Apacer tests every cell on every chip, on every module. This is most comprehensive testing in the industry and ensures that Apacer delivers only proven, compatible and guaranteed solutions.

## **Lifetime Warranty**

We are so confident in the design, build and testing procedures that we offer a lifetime warranty on every Apacer DRAM module. Lifetime warranties mean that you are covered for as long as you own the module, and that you never have to worry about the integrity of your Module.

## **JEDEC**

Apacer helps set the standard for DRAM Module technology. All Apacer DRAM Module is JEDEC compliant, an important specification used by leading semiconductor manufacturers.

## **Customer Service**

Supply chain management/Customized product design/On-site FAE support/Real time technical consultant/Quick RMA response.



DDR2-533/667 FB-DIMM  
 1.8V CL4 / CL5 240pin  
 256MB-2GB

## Fully Buffered DIMM Series

Apacer Fully Buffered DIMM (FB-DIMM) technology is a new memory architecture that addresses the scaling needs of both capacity and bandwidth in enterprise platforms replacing earlier parallel-based systems. By passing strict validation testing and maintaining excellent performance, Apacer is the first Asian DRAM module maker approved by Intel's Platform Memory Operations (PMO) and also meet JEDEC specifications.

### 533MHz

Data Rate	Capacity	P/N	DRAM Configuration	CL	Voltage
533MHz	512MB	78.96G96.404	64*8	CL4	1.8V
	512MB	78.97G96.404	64*8	CL4	1.8V
	1GB	78.06G96.405	64*8	CL4	1.8V
	1GB	78.07G96.405	64*8	CL4	1.8V
	2GB	78.A6G9G.401	128*4	CL4	1.8V
	2GB	78.A7G9G.401	128*4	CL4	1.8V

### 667MHz

Data Rate	Capacity	P/N	DRAM Configuration	CL	Voltage
667MHz	512MB	78.96G99.404	64*8	CL5	1.8V
	512MB	78.97G99.404	64*8	CL5	1.8V
	1GB	78.06G99.405	64*8	CL5	1.8V
	1GB	78.07G99.405	64*8	CL5	1.8V
	2GB	78.A6G9H.401	128*4	CL5	1.8V
	2GB	78.A7G9H.401	128*4	CL5	1.8V

## Features

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FB-DIMM is a perfect solution to overcome the expansion and data transfer bandwidth constraints of DDR2 memory modules. Apacer, Intel's Fully Buffered DIMM enabled partner for channel, has been certified by Intel and thoroughly tested by major server and workstation makers using actual platforms. The biggest advantage of FB-DIMM is the direct control over the module chips by means of point-to-point serial signals, designed partly to reduce the number of pins for signal transfer to 69, extensively reduce noise and transfer data at 3.2 Gbps or greater. Because FB-DIMM has a maximum theoretical bandwidth of 38.4 GB and a maximum capacity of 192 GB, it fulfills the scalability, broad bandwidth, high speed and high capacity needs of server and workstations.

### **Expanded Memory Capacity**

FB-DIMM is expected to offer practical mainboard memory capacities of up to 192 GBytes-6 channels,8 DIMMs/channels,2 ranks/DIMM.

### **Increased Performance**

FB-DIMM is expected to deliver 6.7GBytes/s sustained data throughput per channel -2 DIMMs/channel,2 ranks/DIMM.

### **Enhanced Reliability**

FB-DIMM offers CRC protection for both data and commands with bit lane fail-over and transient error detection and retry.

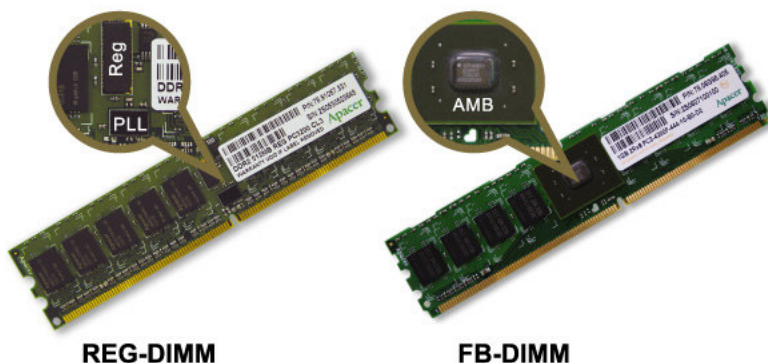
### **Improved Longevity**

FB-DIMM will be implemented using industry-standard DDR2 devices with architecture and technology that will be viable through the DDR3 lifecycle and beyond.

## Fully Buffered DIMM

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### *Advanced Memory for Improved Reliability and Performance*



- New Point to Point Serial Interface
- Uses Standard DDR2 DRAM Devices
- Industry Wide Support and Commitment
- Scalable Interface for Future DDR3

## Where to buy

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### **Taiwan (Headquarters)**

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**DDR2-667 ECC REG**  
**667MHz 1.8V CL5 240pin**  
 512MB-2GB

## Server Memory Series

Apacer has even developed stacking technology, and uses BGA dies and lead-free manufacture technology to advance the production of server memory modules. These products also undergo harsh environment tests, motherboard live tests, and EVT (Environmental Verification Testing) to deliver our commitment to consumers of performance, stability and compatibility.

### SDRAM

Model	Capacity	Description	Data Rate	Voltage	CL	Pin
PC133	64MB-512MB	ECC Registered	133MHz	3.3V	CL3	168pin

### DDR

Model	Capacity	Description	Data Rate	Voltage	CL	Pin
PC3200	256MB-2GB	ECC Registered	400MHz	2.6V	CL3	184pin
PC2700	256MB-4GB	ECC Registered	333MHz	2.5V	CL2.5	184pin
PC2100	256MB-4GB	ECC Registered	266MHz	2.5V	CL2	184pin

### DDR2

Model	Capacity	Description	Data Rate	Voltage	CL	Pin
PC2-3200	512MB-2GB	ECC Registered	400MHz	1.8V	CL3	240pin
PC2-4200	512MB-2GB	ECC Registered	533MHz	1.8V	CL4	240pin
PC2-5300	512MB-2GB	ECC Registered	667MHz	1.8V	CL5	240pin

**Server**

System Model	Std Memory	Max Memory	Slots	Capacity	Product Description	Apacer P/N
Altos G310 MK2	256MB/512MB	4GB	4	512MB Memory	DDR2 533 ECC	AP512ACG310MK2
				1GB Memory	DDR2 533 ECC	AP1024ACG310MK2
Altos G320	512MB	8GB (Only for DDR2 533)	4	512MB Memory	DDR2 667 ECC	AP512ACG320
				1GB Memory	DDR2 667 ECC	AP1024ACG320
Altos G520	N/A	8GB	4	512MB Memory Kit of 2	DDR 333 REG	AP512ACG520
				1GB Memory Kit of 2 Daul Rank	DDR 333 REG	AP1024ACG520
				2GB Memory Kit of 2 SingleRank	DDR 333 REG	AP2048ACG520
				256MB Memory Kit of 2	DDR 333 REG	AP256ACG520
				1GB Memory Kit of 2 SingleRank	DDR 333 REG	AP1024ACG520S
				4GB Memory Kit of 2 Dual Rank	DDR 333 REG	AP4096ACG520
				4GB Memory Kit of 2 SingleRank	DDR 333 REG	AP4096ACG520S
Altos G530	512MB	8GB	4	512MB Memory	DDR2 400 ECC	AP512ACG530
				1GB Memory Single Rank	DDR2 400 ECC	AP1024ACG530
				1GB Memory Dual Rank	DDR2 400 ECC	AP1024ACG530D
Altos G710	512MB	16GB	8	512MB Memory Kit of 2	DDR2 400 REG	AP512ACG710
				1GB Memory Kit of 2 SingleRank	DDR2 400 REG	AP1024ACG710
				2GB Memory Kit of 2 SingleRank	DDR2 400 REG	AP2048ACG710
				4GB Memory Kit of 2 SingleRank	DDR2 400 REG	AP4096ACG710
				1GB Memory Kit of 2 Dual Rank	DDR2 400 REG	AP1024ACG710D
				2GB Memory Kit of 2 Dual Rank	DDR2 400 REG	AP2048ACG710D
Altos R510	512MB(R)	12GB	6	512MB Memory Kit of 2	DDR 333 REG	AP512ACR510
				1GB Memory Kit of 2	DDR 333 REG	AP1024ACR510
				2GB Memory Kit of 2	DDR 333 REG	AP2048ACR510
				4GB Memory Kit of 2 Dual Rank	DDR 333 REG	AP4096ACR510
				4GB Memory Kit of 2 SingleRank	DDR 333 REG	AP4096ACR510S
Altos R710	512MB	16GB	8	512MB Memory Kit of 2	DDR2 400 REG	AP512ACR710
				1GB Memory Kit of 2 SingleRank	DDR2 400 REG	AP1024ACR710
				1GB Memory Kit of 2 Dual Rank	DDR2 400 REG	AP1024ACR710D
				2GB Memory Kit of 2 SingleRank	DDR2 400 REG	AP2048ACR710
				2GB Memory Kit of 2 Dual Rank	DDR2 400 REG	AP2048ACR710D
				4GB Memory Kit of 2 SingleRank	DDR2 400 REG	AP4096ACR710
				4GB Memory Kit of 2 Dual Rank	DDR2 400 REG	AP4096ACR710D

**ASUSTek Computers**

**Server**

System Model	Std Memory	Max Memory	Slots	Capacity	Product Description	Apacer P/N
RS120-E3	N/A	8GB	4	512MB Memory	DDR2 667 ECC	75.963A4.G01
				1GB Memory	DDR2 667 ECC	75.063A4.G01
RS160-E2	N/A	16GB	8	1GB Memory Kit of 2	DDR2 400 REG	78.91057.461
				2GB Memory Kit of 2	DDR2 400 REG	78.01068.461
				4GB Memory Kit of 2	DDR2 400 REG	78.A1085.421
TS300-E3	N/A	12GB	6	512MB Memory	DDR2 667 ECC	78.91095.420
				1GB Memory	DDR2 667 ECC	78.01095.420

# ASUSTek Computers

## Server

System Model	Std Memory	Max Memory	Slots	Capacity	Product Description	Apacer P/N
TS500-E2	N/A	12GB	6	512MB Memory	DDR2 400 REG	78.91057.331
				1GB Memory	DDR2 400 REG	78.01068.331

## Serverboard

System Model	Std Memory	Max Memory	Slots	Capacity	Product Description	Apacer P/N
K8N-DL	N/A	24GB	6	1GB Memory Kit of 2	DDR 400 REG	75.963A1.G01
				2GB Memory Kit of 2	DDR 400 REG	75.072A1.G01
				4GB Memory Kit of 2	DDR 400 REG	78.A1085.421
K8N-DRE	N/A	16GB	8	2GB Memory Kit of 2	DDR 400 REG	77.11147.332
NCLV-DS	N/A	8GB	4	512MB Memory	DDR 333 REG	77.10632.332
				1GB Memory	DDR 333 REG	77.10732.332
				2GB Memory	DDR 333 REG	77.11132.462
				256MB Memory	DDR 333 REG	77.11850.462
NCLV-DS2	N/A	12GB	6	1GB Memory Kit of 2	DDR2 400	75.963A1.G01
				2GB Memory Kit of 2	DDR2 400	75.072A1.G01
				4GB Memory Kit of 2	DDR2 400	78.A1085.421
PVL-D/1U	N/A	16GB	8	1GB Memory	DDR2 400	75.963A1.G01
				2GB Memory	DDR2 400	75.072A1.G01

## Intel

### Server

System Model	Std Memory	Max Memory	Slots	Capacity	Product Description	Apacer P/N
SBX82	N/A	8GB	4	1GB Memory Kit of 2	DDR2 400 REG	76.92220.B12
				2GB Memory Kit of 2	DDR2 400 REG	78.01068.331
				4GB Memory Kit of 2	DDR2 400 REG	76.A2220.B10
SR4850HW4/ SR6850HW4	N/A	64GB	16	2GB Memory Kit of 2	DDR2 400 REG	78.A222G.B15

### Serverboard

System Model	Std Memory	Max Memory	Slots	Capacity	Product Description	Apacer P/N
SE7210TP1-E	N/A	4GB	4	256MB Memory	DDR 400 ECC	77.10638.335
				512MB Memory	DDR 400 ECC	77.10735.464
				1GB Memory	DDR 400 ECC	77.11135.464
SE7221BA1-E	N/A	4GB	4	512MB Memory	DDR2 533 ECC	78.91064.464
				1GB Memory	DDR2 533 ECC	78.010164.464
SE7230NH1-E	N/A	4GB	4	1GB Memory Kit of 2	DDR2 533 ECC	75.963A2.G02
				2GB Memory Kit of 2	DDR2 533 ECC	75.063A2.G01
SE7320EP2	N/A	8GB	4	1GB Memory Kit of 2	DDR2 400 REG	75.963A1.G01
				2GB Memory Kit of 2	DDR2 400 REG	76.02220.B11
				4GB Memory Kit of 2	DDR2 400 REG	76.A2220.B10
SE7320SP2	N/A	8GB	4	512MB Memory	DDR 333 REG	76.92220.014
				1GB Memory	DDR 333 REG	76.02220.012
				2GB Memory	DDR 333 REG	76.A2220.017

# Intel

## Server

System Model	Std Memory	Max Memory	Slots	Capacity	Product Description	Apacer P/N
SE7320VP2	N/A	8GB	4	1GB Memory Kit of 2	DDR 333 REG	76.92220.016
				2GB Memory Kit of 2	DDR 333 REG	75.07299.561
				4GB Memory Kit of 2	DDR 333 REG	76.A2220.017
SE7520AF2	N/A	16GB	8	2GB Memory Kit of 2	DDR2 400 REG	78.01068.461
SE7525GP2	N/A	8GB	4	1GB Memory	DDR 333 REG	76.02220.018
SE7525RP2	N/A	8GB	4	1GB Memory Kit of 2	DDR2 400 REG	76.92220.B07
				2GB Memory Kit of 2	DDR2 400 REG	76.02220.B11
				4GB Memory Kit of 2	DDR2 400 REG	76.A2220.B10

# SuperMicro

## Serverboard

System Model	Std Memory	Max Memory	Slots	Capacity	Product Description	Apacer P/N
H8DA8 / H8DAE	N/A	16GB	8	512MB Memory	DDR 400 REG	77.G1747.402
				1GB Memory	DDR 400 REG	77.11147.402
				2GB Memory	DDR 400 REG	78.A1071.114
				256MB Memory	DDR 400 REG	77.G0647.332
H8DCE	N/A	16GB	8	512MB Memory	DDR 400 REG	77.11747.402
				1GB Memory	DDR 400 REG	77.11147.402
				2GB Memory	DDR 400 REG	78.A1071.404
				256MB Memory	DDR 400 REG	77.G0647.332
				4GB Memory	DDR 333 REG	77.12050.A83
H8DSP-8	N/A	16GB	8	512MB Memory Kit of 2	DDR 400 REG	77.G0647.332
				1GB Memory Kit of 2	DDR 400 REG	77.11747.402
				2GB Memory Kit of 2	DDR 400 REG	76.02240.019
				4GB Memory Kit of 2	DDR 400 REG	78.A1071.404
H8SSL-i	N/A	8GB	4	1GB Memory Kit of 2	DDR 400 REG	77.G1738.AF5
				2GB Memory Kit of 2	DDR 400 REG	75.06398.G00
P4SC8/P4SCA/ P4SCE/P4SCi/P4SCT+	N/A	4GB	4	1GB Memory	DDR 400 ECC	77.11136.40G
P8SAA	0MB	8GB	4	1GB Memory	DDR2 533	78.01066.110
P8SC8/P8SCi/P8SCT	0MB	8GB	4	512MB Memory	DDR2 533 ECC	78.91064.420
				1GB Memory	DDR2 533 ECC	78.01064.420
PDSG4/PDSGE	N/A	4GB/8GB	4	512MB Memory	DDR2 667 ECC	78.91095.420
				1GB Memory	DDR2 667 ECC	75.063A4.G01
PDSL4 / PDSLE PDSM4 / PDSME / PDSMi	N/A	4GB/8GB	4	512MB Memory	DDR2 667 ECC	78.91095.420
				1GB Memory	DDR2 667 ECC	75.063A4.G01
PDSMP-8/PDSMP-i	N/A	4GB/8GB	4	2GB Memory	DDR2 533	78.A1086.423
				2GB Memory	DDR2 533 ECC	78.A109B.423
X6DA8-G	N/A	16GB	8	512MB Memory	DDR 333 REG	77.10732.112
				1GB Memory	DDR 400 REG	77.11147.402
X6DA8-G2/X6DAE-G2	N/A	16GB	8	512MB Memory	DDR2 400 REG	73.963B0.110
				1GB Memory	DDR2 400 REG	78.01068.461
X6DAE-G	N/A	16GB	8	1GB Memory Kit of 2	DDR 333 REG	77.10732.112
				2GB Memory Kit of 2	DDR 400 REG	77.11147.402
X6DAi-G	N/A	16GB	8	2GB Memory Kit of 2	DDR 333 REG	77.11132.402
				2GB Memory Kit of 2	DDR 400 REG	77.11147.402

# SuperMicro

## Serverboard

System Model	Std Memory	Max Memory	Slots	Capacity	Product Description	Apacer P/N
X6DAL-B2 / X6DAL-TB2	N/A	12GB	6	1GB Memory Kit of 2	DDR2 400 REG	78.91G57.401
				2GB Memory Kit of 2	DDR2 400 REG	78.01G68.401
				4GB Memory Kit of 2	DDR2 400 REG	78.A1G68.402
X6DAL-G	N/A	12GB	6	1GB Memory Kit of 2	DDR 333 REG	77.10732.112
				2GB Memory Kit of 2	DDR 400 REG	77.11147.402
				2GB Memory Kit of 2	DDR 333 REG	77.11132.402
X6DH3-G2 / X6DH8-G2 / X6DH8-XG2 X6DHE-G2 / X6DHE-XG2	N/A	16GB	8	1GB Memory Kit of 2	DDR2 400 REG	73.963B0.110
				2GB Memory Kit of 2	DDR2 400 REG	78.01068.461
				4GB Memory Kit of 2	DDR2 400 REG	78.A1068.332
X6DHP-8G2 / X6DHR-3G2/X6DHR-8G2/ X6DHR-iG2/X6DHR-iGS	N/A	16GB	8	1GB Memory Kit of 2	DDR2 400 REG	78.91057.331
				2GB Memory Kit of 2	DDR2 400 REG	78.01068.461
				4GB Memory Kit of 2	DDR2 400 REG	78.A1068.332
X6DVL-EG2	N/A	8GB	4	1GB Memory Kit of 2	DDR2 400 REG	78.91G57.401
				2GB Memory Kit of 2	DDR2 400 REG	78.01G68.401
				4GB Memory Kit of 2	DDR2 400 REG	78.A1G68.402
X6DVL-INF	N/A	16GB	8	1GB Memory Kit of 2	DDR2 400 REG	78.91057.331
				2GB Memory Kit of 2	DDR2 400 REG	78.01068.331
				4GB Memory Kit of 2	DDR2 400 REG	78.A1068.332

# Tyan

## Serverboard

System Model	Std Memory	Max Memory	Slots	Capacity	Product Description	Apacer P/N
Tiger i7525 (S2672ANR)	N/A	16GB	4	1GB Memory	DDR2 400 REG	73.063B0.110
Thunder i7520 (S5360)	N/A	16GB	8	4GB Memory Kit of 2 Dual Rank	DDR 333 REG	77.11850.692
Thunder i7522 (S5362)	N/A	32GB	8	2GB Memory Kit of 2	DDR2 400 REG	75.063A1.G00
				4GB Memory Kit of 2	DDR2 400 REG	78.A1068.332
Thunder i7525 (S2676)	N/A	32GB	8	512MB Memory	DDR2 400 REG	75.963A1.G00
				1GB Memory	DDR2 400 REG	75.063A1.G00
				2GB Memory	DDR2 400 REG	78.A1068.332
Thunder K8QS Pro (S4882)	N/A	32GB	16	2GB Memory Kit of 2	DDR 400 REG	77.11147.402
				4GB Memory Kit of 2	DDR 400 REG	78.A1071.114
Thunder K8QSD Pro (S4882-D)	N/A	32GB	16	2GB Memory Kit of 2	DDR 400 REG	75.0729D.G00
				4GB Memory Kit of 2	DDR 400 REG	78.A1071.404
				8GB Memory Kit of 2	DDR 333 REG	77.12050.A83
Thunder K8QW (S4881)	N/A	64GB	16	1GB Memory Kit of 2	DDR 400 REG	75.9639D.G00
				4GB Memory Kit of 2	DDR 400 REG	75.A729D.G00
Thunder K8S Pro (S2882)	N/A	16GB	8	1GB Memory Kit of 2	DDR 400 REG	77.10747.462
				2GB Memory Kit of 2	DDR 400 REG	77.11147.402
				4GB Memory Kit of 2	DDR 400 REG	78.A1071.114
				8GB Memory Kit of 2	DDR 333 REG	75.B7299.G00
Thunder K8SD Pro (S2882-D)	N/A	16GB	8	2GB Memory Kit of 2	DDR 400 REG	77.11147.462
				4GB Memory Kit of 2	DDR 400 REG	75.A729D.G00
Thunder K8SE (S2892)	N/A	16GB	8	1GB Memory Kit of 2	DDR 400 REG	77.10747.462
				2GB Memory Kit of 2	DDR 400 REG	77.11147.402
				4GB Memory Kit of 2	DDR 333 REG	77.11850.462
				8GB Memory Kit of 2	DDR 333 REG	77.12050.AH3

## Serverboard

System Model	Std Memory	Max Memory	Slots	Capacity	Product Description	Apacer P/N
Thunder K8SR (S2881)	N/A	16GB	8	1GB Memory	DDR 400 REG	77.11147.402
				2GB Memory	DDR 400 REG	75.A729D.G00
Thunder K8SRE (S2891)	N/A	16GB	8	2GB Memory Kit of 2	DDR 400 REG	77.11147.402
				4GB Memory Kit of 2	DDR 400 REG	75.A729D.G00
				8GB Memory Kit of 2	DDR 333 REG	77.12050.AH3
Tiger K8WE (S2877)	N/A	12GB	6	2GB Memory	DDR 400 REG	78.A1071.114
Tomcat i7221 (S5150)	N/A	4GB	4	256MB Memory	DDR 400 ECC	77.10636.11G
				512MB Memory	DDR 400 ECC	77.10738.464
				1GB Memory	DDR 400 ECC	77.11138.464
Tomcat i875P (S5102)	N/A	4GB	4	256MB Memory	DDR 400 ECC	77.10636.465
				512MB Memory	DDR 400 ECC	77.10736.464
Tomcat K8E-SLI (S2866A2NRF) / Tomcat K8E-SLI (S2866G3NR)	N/A	4GB	4	512MB Memory	DDR 400 ECC	75.96398.G00
				1GB Memory	DDR 400 ECC	75.06398.G00
Tomcat K8S(S2850)	N/A	8GB	4	1GB Memory Kit of 2	DDR 333 REG	77.10732.112
				2GB Memory Kit of 2	DDR 333 REG	78.01053.112
Trinity i875P (S5101)	N/A	4GB	4	256MB Memory	DDR 400 ECC	77.10636.465
				512MB Memory	DDR 400 ECC	77.10736.464
				1GB Memory	DDR 333 ECC	77.11146.684

## Others

### Dell Server

System Model	Std Memory	Max Memory	Slots	Capacity	Product Description	Apacer P/N
PowerEdge 1800	N/A	16GB	6	512MB Memory Kit of 2	DDR2 400 REG	AP512DLSC1800
				1GB Memory Kit of 2	DDR2 400 REG	AP1024DLSC1800
				2GB Memory Kit of 2 SingleRank	DDR2 400 REG	AP2048DLSC1800
				4GB Memory Kit of 2 SingleRank	DDR2 400 REG	AP4096DLSC1800
				2GB Memory Kit of 2 Dual Rank	DDR2 400 REG	AP2048DLSC1800D
				4GB Memory Kit of 2 Dual Rank	DDR2 400 REG	AP4096DLSC1800D
PowerEdge 1850	N/A	16GB	6	512MB Memory Kit of 2	DDR2 400 REG	AP512DL1800
				1GB Memory Kit of 2 SingleRank	DDR2 400 REG	AP1024DL1800
				2GB Memory Kit of 2 SingleRank	DDR2 400 REG	AP2048DL1800
				4GB Memory Kit of 2 Dual Rank	DDR2 400 REG	AP4096DL1800
				1GB Memory Kit of 2 SingleRank	DDR2 400 REG	AP1024DL1800S
PowerEdge 1855	N/A	16GB	6	512MB Memory Kit of 2	DDR2 400 REG	AP512DLSC1800
				1GB Memory Kit of 2 SingleRank	DDR2 400 REG	AP1024DLSC1800
				2GB Memory Kit of 2 SingleRank	DDR2 400 REG	AP2048DLSC1800
				4GB Memory Kit of 2 Dual Rank	DDR2 400 REG	AP4096DLSC1800
				1GB Memory Kit of 2 SingleRank	DDR2 400 REG	AP4096DLSC1800D
PowerEdge 2800	N/A	16GB	6	512MB Memory Kit of 2 DualRank	DDR2 400 REG	AP512DL2800
				1GB Memory Kit of 2 Dual Rank	DDR2 400 REG	AP1024DL2800
				2GB Memory Kit of 2 Dual Rank	DDR2 400 REG	AP2048DL2800
				4GB Memory Kit of 2 Dual Rank	DDR2 400 REG	AP4096DL2800

## Others

### Dell Server

System Model	Std Memory	Max Memory	Slots	Capacity	Product Description	Apacer P/N
PowerEdge 2850	256MB	16GB	6	512MB Memory Kit of 2 DualRank	DDR2 400 REG	AP512DL2800
				1GB Memory Kit of 2 Dual Rank	DDR2 400 REG	AP1024DL2800
				2GB Memory Kit of 2 Dual Rank	DDR2 400 REG	AP2048DL2800
				4GB Memory Kit of 2 Dual Rank	DDR2 400 REG	AP4096DL2800
				2GB Memory Kit of 2 SingleRank	DDR2 400 REG	AP2048DL2800S
PowerEdge 850	256MB	8GB	4	1GB Memory Kit of 2	DDR2 667 ECC	AP1024DL850
				2GB Memory Kit of 2	DDR2 667 ECC	AP2048DL850
PowerEdge SC1425	256MB	16GB	6	512MB Memory Kit of 2	DDR2 400 REG	AP512DLSC1420
				1GB Memory Kit of 2	DDR2 400 REG	AP1024DLSC1420
				2GB Memory Kit of 2	DDR2 400 REG	AP2048DLSC1420
				4GB Memory Kit of 2	DDR2 400 REG	AP4096DLSC1420

### HP ( COMPAQ ) Server

System Model	Std Memory	Max Memory	Slots	Capacity	Product Description	Apacer P/N
ProLiant BL20p G3	2GB	8GB	4	1GB Memory Kit of 2	DDR2 400 REG	AP1024HPBL20PG
				2GB Memory Kit of 2 SingleRank	DDR2 400 REG	AP2048HPBL20PG
				4GB Memory Kit of 2	DDR2 400 REG	AP4096HPBL20PG
				2GB Memory Kit of 2 Dual Rank	DDR2 400 REG	AP2048HPBL20PGD
ProLiant BL25p	1GB	16GB	8	512MB Memory Kit of 2	DDR 400 ECC	AP512HPBL25P
				1GB Memory Kit of 2	DDR 400 ECC	AP1024HPBL25P
				2GB Memory Kit of 2	DDR 400 ECC	AP2048HPBL25P
ProLiant BL35p	1GB	4GB	2	512MB Memory Kit of 2	DDR 400 ECC	AP512HPBL25P
				1GB Memory Kit of 2	DDR 400 ECC	AP1024HPBL25P
				2GB Memory Kit of 2	DDR 400 ECC	AP2048HPBL25P
ProLiant BL45p	1GB/2GB	32GB	16	512MB Memory Kit of 2	DDR 400 ECC	AP512HPBL25P
				1GB Memory Kit of 2	DDR 400 ECC	AP1024HPBL25P
				2GB Memory Kit of 2	DDR 400 ECC	AP2048HPBL25P
ProLiant DL100 Storage Server	256MB/512MB	4GB	4	256MB Memory	DDR 400 ECC	AP256HPDL100
				512MB Memory	DDR 400 ECC	AP512HPDL100
				1GB Memory	DDR 400 ECC	AP1024HPDL100
ProLiant DL380 G4	2GB	12GB	6	512MB Memory Kit of 2	DDR2 400 REG	AP512CMDL380G4
				1GB Memory Kit of 2	DDR2 400 REG	AP1024CMDL380G4
				2GB Memory Kit of 2 SingleRank	DDR2 400 REG	AP2048CMDL380G4
				4GB Memory Kit of 2 Dual Rank	DDR2 400 REG	AP4096CMDL380G4
				2GB Memory Kit of 2 Dual Rank	DDR2 400 REG	AP2048CMDL380G4D
				4GB Memory Kit of 2 SingleRank	DDR2 400 REG	AP4096CMDL380G4S
ProLiant DL385	1GB	16GB	8	512MB Memory Kit of 2	DDR 400 ECC	AP512HPDL385
				1GB Memory Kit of 2	DDR 400 ECC	AP1024HPDL385
				2GB Memory Kit of 2	DDR 400 ECC	AP2048HPDL385
ProLiant DL585	4GB	32GB	16	512MB Memory Kit of 2	DDR 400 ECC	AP512HPDL385
				1GB Memory Kit of 2	DDR 400 ECC	AP1024HPDL385
				2GB Memory Kit of 2	DDR 400 ECC	AP2048HPDL385
ProLiant ML110 G3	512MB/1GB	8GB	4	1GB Memory Kit of 2	DDR2 533 ECC	AP1024HPML310G
				2GB Memory Kit of 2	DDR2 533 ECC	AP2048HPML310G
ProLiant ML310 G3	512MB	8GB	4	1GB Memory Kit of 2	DDR2 533 ECC	AP1024HPML310G
				2GB Memory Kit of 2	DDR2 533 ECC	AP2048HPML310G

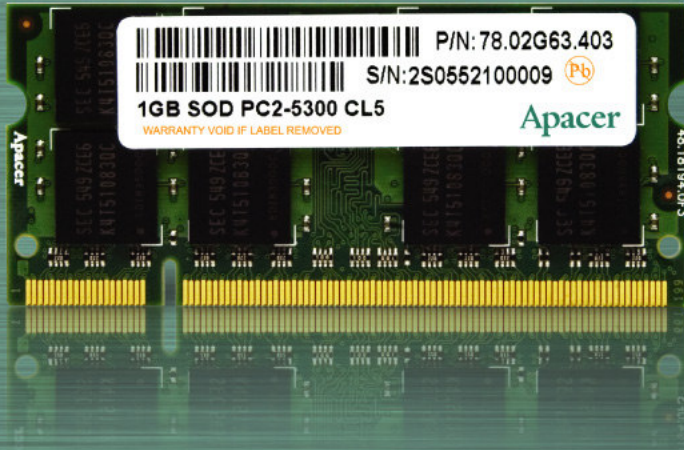
## Others

### HP ( COMPAQ ) Server

System Model	Std Memory	Max Memory	Slots	Capacity	Product Description	Apacer P/N
ProLiant ML350 G4p	512MB/1GB	12GB	6	1GB Memory Kit of 2	DDR2 400 REG	AP1024HPML370G
ProLiant ML370 G4	1GB/2GB	16GB	8	2GB Memory Kit of 2 SingleRank	DDR2 400 REG	AP2048HPML370G
				4GB Memory Kit of 2	DDR2 400 REG	AP4096HPML370G
ProLiant ML570 G3	1GB	32GB	16	2GB Memory Kit of 2 Dual Rank	DDR2 400 REG	AP2048HPML370GD

### IBM ( Lenovo ) Server

System Model	Std Memory	Max Memory	Slots	Capacity	Product Description	Apacer P/N
BladeCenter HS20 ( 8843-xxx )	512MB	8GB	4	1GB Memory Kit of 2	DDR2 400 REG	AP1024IBHS20ND
				2GB Memory Kit of 2	DDR2 400 REG	AP2048IBHS20ND
				2GB Memory Kit of 2 (Chipkill)	DDR2 400 REG	AP2048IBHS20S
				4GB Memory Kit of 2 (Chipkill)	DDR2 400 REG	AP4096IBHS20S
eServer xSeries 100 / 206m	256MB/ 512MB/1GB	8GB	4	1GB Memory Kit of 2	DDR2 533 ECC	AP1024IBEX206M
				2GB Memory Kit of 2	DDR2 533 ECC	AP2048IBEX206M
eServer xSeries 100 Express	256MB	8GB	4	512MB Memory	DDR2 533 ECC	AP512IBEX100
				1GB Memory	DDR2 533 ECC	AP1024IBEX100
eServer xSeries 260	2GB	64GB	4	2GB Memory Kit of 2 (Chipkill)	DDR2 400 REG	AP2048IBX260
				4GB Memory Kit of 2 (Chipkill)	DDR2 400 REG	AP4096IBX260
				1GB Memory Kit of 2 (Chipkill)	DDR2 400 REG	AP1024IBX260
eServer xSeries 306 ( 8836-xxx )	512MB	4GB	4	256MB Memory	DDR 400 ECC	AP256IBEX306
				512MB Memory	DDR 400 ECC	AP512IBEX306
				1GB Memory	DDR 400 ECC	AP1024IBEX306
eServer xSeries 306m	512MB	8GB	4	1GB Memory Kit of 2	DDR2 533 ECC	AP1024IBEX206M
				2GB Memory Kit of 2	DDR2 533 ECC	AP2048IBEX206M
eServer xSeries 325	512MB(R)	12GB	6	512MB Memory Kit of 2	DDR 400 REG	AP512IB326
				1GB Memory Kit of 2	DDR 400 REG	AP1024IB326
				2GB Memory Kit of 2	DDR 400 REG	AP2048IB326
eServer xSeries 326	1GB	16GB	8	512MB Memory Kit of 2	DDR 400 REG	AP512IB326
				1GB Memory Kit of 2	DDR 400 REG	AP1024IB326
				2GB Memory Kit of 2	DDR 400 REG	AP2048IB326
eServer xSeries 326m (7969-xxx)	1GB	16GB	8	512MB Memory Kit of 2	DDR 400 ECC	AP512IBEX326M
				1GB Memory Kit of 2	DDR 400 ECC	AP1024IBEX326M
				2GB Memory Kit of 2	DDR 400 ECC	AP2048IBEX326M
eServer xSeries 336 ( 8837-xxx )	1GB	16GB	8	512MB Memory Kit of 2	DDR2 400 REG	AP512IBEX336
				1GB Memory Kit of 2	DDR2 400 REG	AP1024IBEX336
				2GB Memory Kit of 2 (Chipkill)	DDR2 400 REG	AP2048IBEX336
				4GB Memory Kit of 2 (Chipkill)	DDR2 400 REG	AP4096IBEX336
eServer xSeries 346 ( 8840-xxx )	1GB	16GB	8	512MB Memory Kit of 2	DDR2 400 REG	AP512IBEX346
				1GB Memory Kit of 2	DDR2 400 REG	AP1024IBEX346
				2GB Memory Kit of 2 (Chipkill)	DDR2 400 REG	AP2048IBEX346
				4GB Memory Kit of 2 (Chipkill)	DDR2 400 REG	AP4096IBEX346
eServer xSeries BladeCenter LS20 (8850-xxx)	1GB/2GB	8GB	4	2GB Memory Kit of 2	DDR 400 REG	AP2048IBEXLS20
				4GB Memory Kit of 2	DDR 400 REG	AP4096IBEXLS20



**DDR2-667**  
**667MHz 1.8V CL5 200pin**  
**256MB-1GB**

## Notebook Memory Series

Even the best notebooks need a boost to perform at their peak. That is where Apacer memory comes in. Made from the highest quality components, it is designed to increase productivity and help your system work faster. It can even increase battery life to help you go to the distance on that marathon project.

### SDRAM

Model	Capacity	Description	Data Rate	Voltage	CL	Pin
PC133	64MB-512MB	SO DIMM	133MHz	3.3V	CL3	144pin
	128MB-256MB	Micro DIMM	133MHz	3.3V	CL3	144pin

### DDR

Model	Capacity	Description	Data Rate	Voltage	CL	Pin
PC3200	128MB-1GB	SO DIMM	400MHz	2.6V	CL3	200pin
			400MHz	2.6V	CL3	172pin
PC2700	128MB-1GB	SO DIMM	333MHz	2.5V	CL2.5	200pin
	128MB-512MB	Micro DIMM	333MHz	2.5V	CL2.5	172pin
PC2100	128MB-1GB	SO DIMM	266MHz	2.5V	CL2	200pin
	128MB-512MB	Micro DIMM	266MHz	2.5V	CL2	172pin

### DDR2

Model	Capacity	Description	Data Rate	Voltage	CL	Pin
PC2.4200	256MB-1GB	SO DIMM	533MHz	1.8V	CL4	200pin
	256MB-512MB	Micro DIMM	533MHz	1.8V	CL4	214pin
PC2-5300	256MB-1GB	SO DIMM	667MHz	1.8V	CL5	200pin

System Model	Standard Memory	Maximum Memory	Slots	Capacity	Product Description
Aspire 1650 Series / 1651	256MB/512MB	2GB	2	256MB/512MB/1GB	DDR2 400
Aspire 1650Z Series	256MB/512MB	2GB	2	256MB/512MB/1GB	DDR2 533
Aspire 3610 Series / 3613 / 3620 / 3623 / 3627 WXMi	256MB/512MB	2GB	2	256MB/512MB/1GB	DDR2 400
Aspire 5500Z Series / 5501WXCi / 5501WXCi-U / 5510 Series / 5512	256MB/512MB	2GB	2	256MB/512MB/1GB	DDR2 533
Aspire 5560 Series / 5562WXMi / 5650 Series / 5652WLMi / 5670 Series / 5672WLMi	512MB	4GB	2	256MB	DDR2 533
				512MB	DDR2 667
				1GB	DDR2 667
TravelMate 2400 / 2410	256MB	2GB	2	256MB/512MB/1GB	DDR2 533
TravelMate 2420	256MB/512MB	2GB	2	256MB/512MB/1GB	DDR2 400
TravelMate 3000 Series / 3002 / 3210	512MB	2GB	2	256MB/512MB/1GB	DDR2 533
TravelMate 3010 Series / 3012WTMi	512MB	4GB	2	256MB	DDR2 533
				512MB	DDR2 667
				1GB	DDR2 667
TravelMate 3220 / 3222 / 3230 Series	256MB/512MB	2GB	2	256MB/512MB/1GB	DDR2 533
TravelMate 3240 Series / 3242NWXMi / 3280 Series / 3282NWXMi	2GB	4GB	2	256MB	DDR2 533
				512MB	DDR2 667
				1GB	DDR2 667
TravelMate 3300 / 3302 / 3304	256MB/512MB	2GB	2	256MB/512MB/1GB	DDR2 533
TravelMate 4020 / 4060 Series	256MB	2GB	2	256MB/512MB/1GB	DDR2 533
TravelMate 4151 Series / 8100 Series	512MB	2GB	2	256MB/512MB/1GB	DDR2 533
TravelMate 4200 / 4210 / 4260 / 4270	2GB	4GB	2	256MB	DDR2 533
				512MB	DDR2 667
				1GB	DDR2 667
TravelMate 8200 series / 8204WLMi	1GB	4GB	2	256MB	DDR2 533
				512MB	DDR2 667
				1GB	DDR2 667
TravelMate C200 Tablet Series 202 / 203 / 204	256MB/512MB	2GB	2	256MB/512MB/1GB	DDR2 533
Extensa 2600 Series	256MB	2GB	2	256MB/512MB/1GB	DDR2 400
Ferrari 4000 Series	512MB	2GB	2	256MB/512MB/1GB	DDR 333

# HP

System Model	Standard Memory	Maximum Memory	Slots	Capacity	Product Description
nc4200 / nc6120 Notebook PC	256MB/512MB	2GB	2	256MB/512MB/1GB	DDR2 533
nc6220 Notebook PC	256MB/512MB/1GB	2GB	2	256MB/512MB/1GB	DDR2 400
nc6230 Notebook PC	256MB	2GB	2	256MB/512MB/1GB	DDR2 533
nc8200 Series (CTO) / nc8230 / nw8240 Notebook PC	256MB/512MB/1GB	2GB	2	256MB/512MB/1GB	DDR2 533
nx4300 Notebook PC	512MB	2GB	2	256MB/512MB/1GB	DDR2 533
nx6130 Notebook PC	256MB	2GB	2	256MB/512MB/1GB	DDR2 533
nx8220 Notebook PC	256MB/512MB	2GB	2	256MB/512MB/1GB	DDR2 533
nx9420 Notebook PC	512MB	4GB	2	512MB/1GB	DDR2 677
nx9600 Notebook PC	512MB/1GB	2GB	2	256MB/512MB/1GB	DDR2 400
Pavilion dv4223EA / dv4224EA / dv4224TX / dv4225EA	512MB/1GB	2GB	2	256MB/512MB/1GB	DDR2 533
Pavilion zd8000 Series	512MB/1GB	2GB	2	256MB/512MB/1GB	DDR2 533
Pavilion zd8350LA / zd8368EA	1GB	2GB	2	256MB/512MB/1GB	DDR2 533
Presario B1800 Series	512MB	2GB	2	256MB/512MB/1GB	DDR2 533
Presario V4000T series	256MB/512MB/ 1GB/2GB	2GB	2	256MB/512MB/1GB	DDR2 533
Presario V4203TU / V4204TU / V4205TU	512MB	2GB	2	256MB/512MB/1GB	DDR2 533
Presario V4265EA / V4274EA / V4276EA / V4278EA / V4285EA / V4338EA	1GB	2GB	2	256MB/512MB/1GB	DDR2 533
Presario X6000 Series	256MB/512MB/1GB	2GB	2	256MB/512MB/1GB	DDR2 400
Tablet PC TC4200	256MB/512MB/1GB	2GB	2	256MB/512MB/1GB	DDR2 533

# ASUS

## SO DIMM

System Model	Standard Memory	Maximum Memory	Slots	Capacity	Product Description
A3 Series A3Ac / A3H / A3V / A3Vc / A3Vp	N/A	2GB	2	256MB/512MB/1GB	DDR2 533
A6R (A6000R) / A6V (A6000V)	N/A	2GB	2	256MB/512MB/1GB	DDR2 533
A6Va(A6000Va Series) / A6Vc(A6000Vc Series)	256MB/512MB	2GB	2	256MB/512MB/1GB	DDR2 533
A6Vm	N/A	2GB	2	256MB/512MB/1GB	DDR2 533
M6 Series M6A (M6000A) / M6V (M6000V) / M6Va / M6V Deluxe	N/A	2GB	2	256MB/512MB/1GB	DDR2 533
M9 Series / M9A / M9V	N/A	1.5GB	1	256MB/512MB/1GB	DDR2 533
U5 Series U5A	512MB	1.5GB	1	256MB/512MB/1GB	DDR2 533
V6V	256MB/512MB	2GB	2	256MB/512MB/1GB	DDR2 533
V6 Series V6Va	N/A	2GB	2	256MB/512MB/1GB	DDR2 533
W1 Series W1 Carbon / W1V / W1Vb (W1000Vb) / W1Vc (W1000Vc)	N/A	2GB	2	256MB/512MB/1GB	DDR2 533

◆ Fully Buffered DIMM ◆ Server Memory ◆ **Notebook Memory** ◆ Desktop Memory

# ASUS

## SO DIMM

System Model	Standard Memory	Maximum Memory	Slots	Capacity	Product Description
W3A(W3000A Series) / W3V(W3000V Series)	256MB/512MB	2GB	2	256MB/512MB/1GB	DDR2 533
W5A(W5000A Series)	256MB	768MB	1	256MB/512MB	DDR2 533
W5G00A (W5GA)	256MB/512MB	1GB	1	256MB/512MB/1GB	DDR2 400
W6 Series / W6000A (W6A) / W6A	512MB	1.5GB	1	256MB/512MB/1GB	DDR2 533

## Micro DIMM

System Model	Standard Memory	Maximum Memory	Slots	Capacity	Product Description
M5A(M5200A Series)	256MB	768MB	1	256MB/512MB	DDR2 533
W5 Series W5Ae	512MB	1GB	1	256MB/512MB/1GB	DDR2 400
S5 Series S5A (S5200A) / Z3300A (Z33A)	256MB	768MB	1	256MB/512MB	DDR2 400
S5A Series	256MB	768MB	1	256MB/512MB	DDR2 533

# IBM

System Model	Standard Memory	Maximum Memory	Slots	Capacity	Product Description
R51e 1843-xxx / R51e 1843A34 /	256MB/512MB	2GB	2	256MB/512MB/1GB	DDR2 533
R51e 1844-xxx / R51e 1845-xxx	256MB/512MB	2GB	2	256MB/512MB/1GB	DDR2 533
ThinkPad R51e 1845A17	256MB	2GB	2	256MB/512MB/1GB	DDR2 533
ThinkPad R52 Series	256MB/512MB/1GB	2GB	2	256MB/512MB/1GB	DDR2 533
ThinkPad T43	256MB/512MB/1GB	2GB	2	256MB/512MB/1GB	DDR2 533
ThinkPad X41 Tablet	256MB/512MB	1.28GB / 1.5GB	1	256MB/512MB/1GB	DDR2 533
ThinkPad X41	256MB/512MB	1.28GB / 1.5GB	1	256MB/512MB/1GB	DDR2 533
ThinkPad Z60m	256MB/512MB/ 768MB/1GB	2GB	2	256MB/512MB/1GB	DDR2 533

# Toshiba

System Model	Standard Memory	Maximum Memory	Slots	Capacity	Product Description
Portege R200-S234	256MB	1.28GB	1	256MB/512MB/1GB	DDR2 533
Portege R200-S2062	256MB/512MB	1.25GB	1	256MB/512MB/1GB	DDR2 533
Portege R200-S114 / 200-S214	512MB	1.25GB	1	256MB/512MB/1GB	DDR2 533
Portege R200-113	256MB	1.25GB	1	256MB/512MB/1GB	DDR2 533
Portege R200-P1101 / R200-P1111	512MB	1.25GB	1	256MB/512MB/1GB	DDR2 533
Satellite M50-MX2	256MB/512MB/1GB	2GB	2	256MB/512MB/1GB	DDR2 533
Portege R200-110	256MB	1.28GB	1	256MB/512MB/1GB	DDR2 533

◆ Fully Buffered DIMM ◆ Server Memory ◆ **Notebook Memory** ◆ Desktop Memory



DDR2-800 UNB  
800MHz 1.8V CL5 240pin  
256MB-1GB

## Desktop Memory Series

Apacer's memory modules for general purposes feature outstanding stability and compatibility. This line has not only received an enthusiastic welcome from consumers but innumerable awards and top ratings all over the world, which have allow Apacer to embed itself in the memory module market and command a significant market share.

### SDRAM

Model	Capacity	Description	Data Rate	Voltage	CL	Pin
PC133	64MB-512MB	Non-ECC	133MHz	3.3V	CL3	168pin
		ECC				

### DDR

Model	Capacity	Description	Data Rate	Voltage	CL	Pin
PC4000	256MB-1GB	Non-ECC	500MHz	2.6V	CL2.5	184pin
		ECC				
PC3200	256MB-1GB	Non-ECC	400MHz	2.6V	CL3	184pin
		ECC				
PC2700	256MB-1GB	Non-ECC	333MHz	2.5V	CL2.5	184pin
		ECC				
PC2100	256MB-1GB	Non-ECC	266MHz	2.5V	CL2	184pin
		ECC				

### DDRII

Model	Capacity	Description	Data Rate	Voltage	CL	Pin
PC2-4200	256MB-2GB	Non-ECC	533MHz	1.8V	CL4	240pin
		ECC				
PC2-5300	256MB-1GB	Non-ECC	667MHz	1.8V	CL5	240pin
		ECC				
PC2-6400	256MB-1GB	Non-ECC	800MHz	1.8V	CL5	240pin
		ECC				



DDR2-800 UNB  
800MHz 1.8V CL5 240pin  
256MB-1GB

## Overclocking Series

Apacer Overclocking (OK) series is to fulfill the demands of game players and advanced users who need high-efficiency and high-reliability in high-speed computing because of the increased enjoyment of 3D games and the desire to upgrade computer systems. The superior compatibility and stability of the OK series demonstrates the full performance and efficiency of both the motherboard and system.

The OK series consists of professional-level memory modules. Developers have adopted the low-voltage design has been applied to the range to reduce heat by lowering power consumption and thereby to ensure optimal system stability through better heat management. All components have been tested to comply with the strictest functionality requirements and every chip has been tested before and after assembly to ensure the best quality and top performance.

### Overclocking Series

Model	Capacity	Description	Data Rate	Voltage	CL	Pin
PC2-5300	256MB-1GB	Non-ECC	667MHz	1.8V	CL5	240pin
PC2-6400	256MB-1GB	Non-ECC	800MHz	1.8V	CL5	240pin

# Apacer

*Access the best*

## Global Presence

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