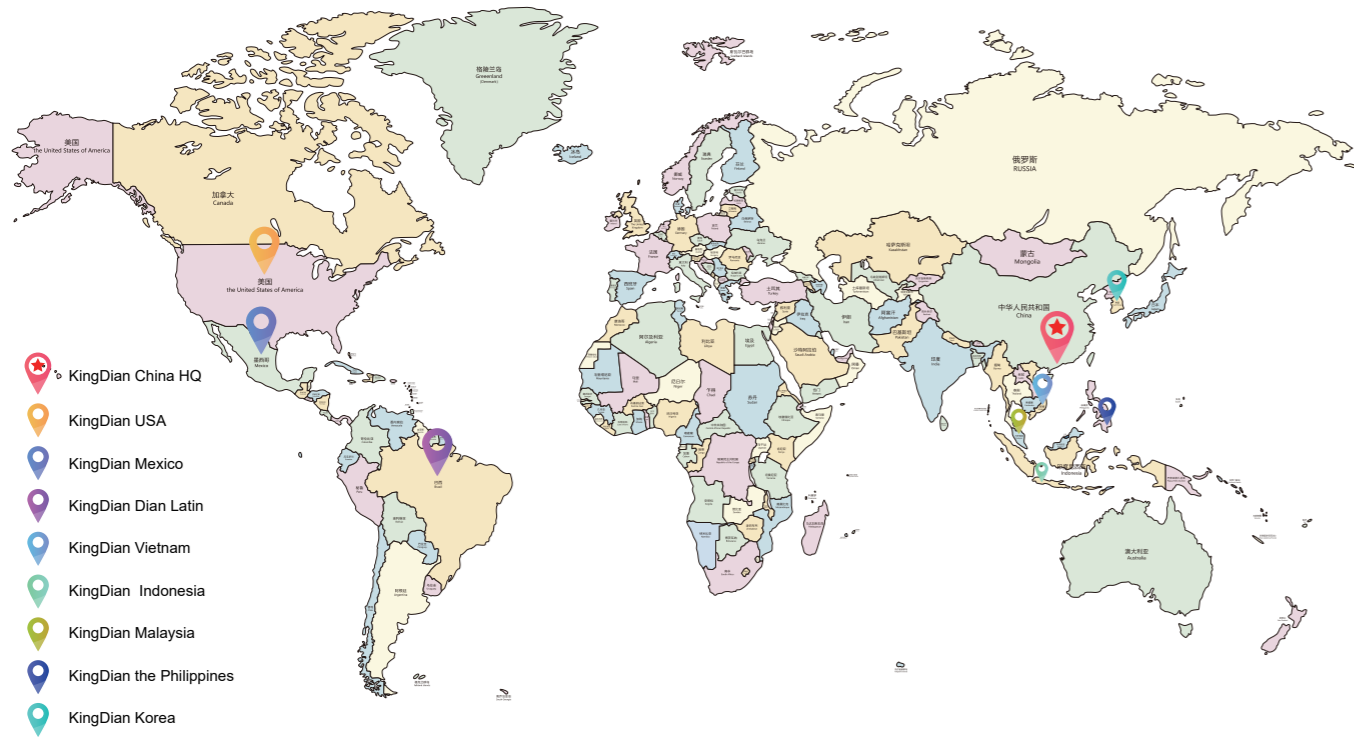


## KingDian International Branches



## International Branches

### HQ: Shenzhen KingDian Technology Co., Ltd.

Address: 6th Floor, Block B2, Fuxinlin Industrial Park, Hangcheng Industrial Zone, Xixiang Street, Baoan District, Shenzhen, Guangdong, China(518102)

Customer Service: +860755-85281822

Fax: +860755-85281822-608

www.kingdianssd.com

### Latin America Branch Office

Address: Rua marquesa de santos, 27 apt 410 - Rio De aneiro-Brazil

### North America Branch Office

Address: 2651 S Course Dr #205 Pompano Beach-Miami-FL F33069

### Indonesia/Malaysia Branch Office

Address: Jl.Suryo No.137,Jagalan, Kecamatan Jebres, Kota Surakarta,Jawa Tengah,Indonesia

### Vietnam Branch Office

Address: 220 Xo Viet Nghe Tinh Street, Ward 21, Binh Thanh District, Ho Chi Minh City, Vietnam

### Korea Branch Office

Address: 934 Dong, Gwanak-ro Gwanak-gu Seoul, Korea

### Philippine Branch Office

Address: 169 P. Parada St., Brgy. Sta Lucia, San Juan City 1500 Philippines

### Mexico Branch Office

Address: Calle Jacarsndas Mz 156 LT 29 Hacienda Ojo de Agua, Tecamac -Estado de Mexico 55770

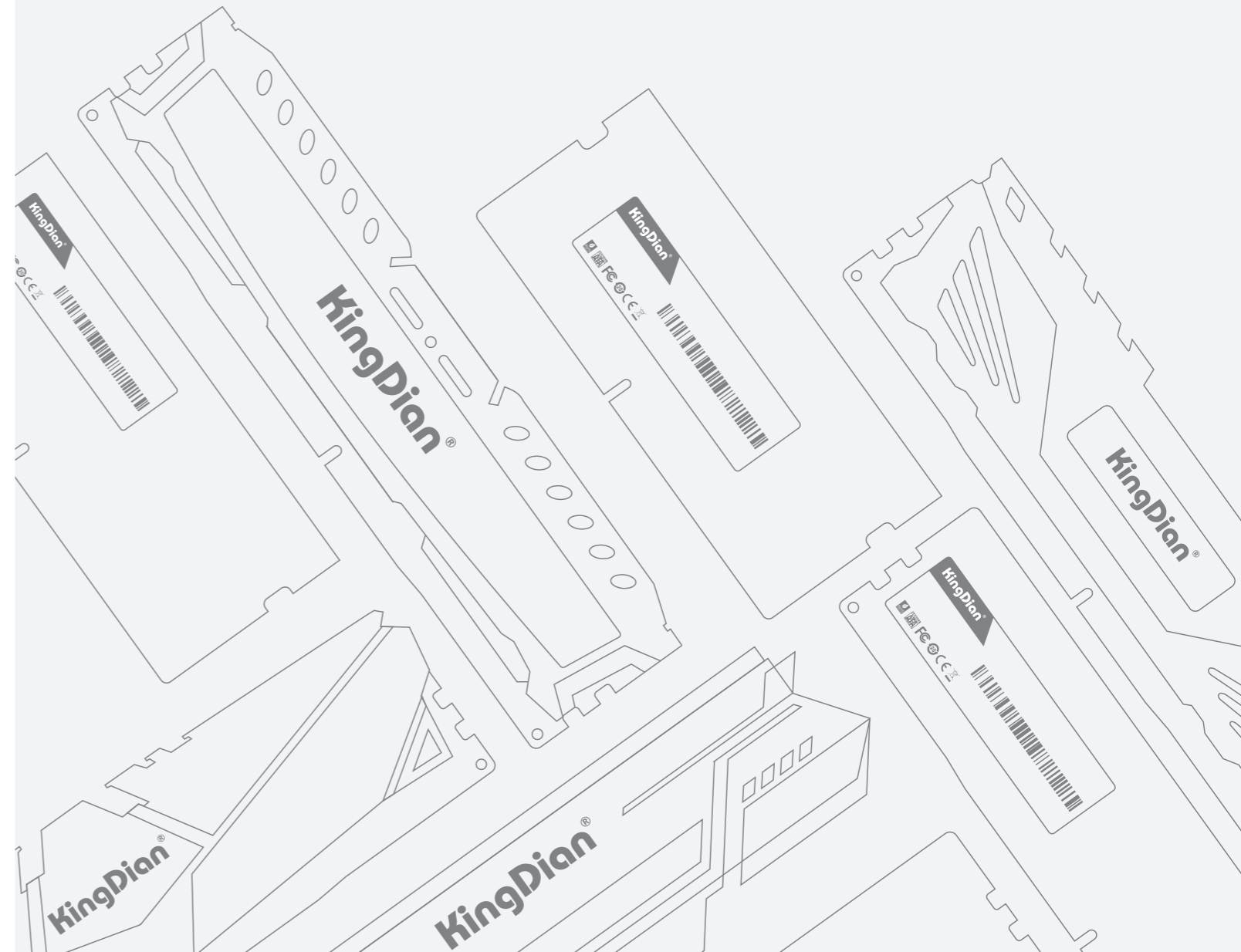


# KingDian®

Focus on SSD and DDR memory  
Since 2010

Version 2023

# DDR PRODUCTS MANUAL







## About Us

ShenZhen KingDian Technology Co, Ltd. was founded in 2010, it is one of the earliest high-tech companies engaged in SSD Solid State Drive, DDR Memories R&D, production and marketing in China.

From the date of its establishment, Our company has been devoted to the intensive cultivation of the SSD Solid State Drive and DDR Memory industry, providing inexpensive and quality storage solutions for all walks of life.

So far, we have set up branch offices in South Korea, Latin America, North America, Mexico, Indonesia, Malaysia, Philippines and Vietnam. Provide customers with more professional, timely and comprehensive localization services!

In China mainland, we have our own distribution channels in 28 provinces! We always put the quality of products in the most important position. We firmly believe that: The quality of the product is the life of a company! Our company has many professional engineers, advanced equipment, so as to ensure that our products can be tested by the strictest and effective industry standards from a series of strict procedures like the material inspection, production process control, product testing, quality risk control, thereby to ensure provided the most satisfaction products to our users!

We are committed to providing customers with high quality, the most cost-effective products. and constantly improve the meticulous pre-sale, sale, after-sales service, we strive to continue to create value for our customers.





## Our vision:

To make "KingDian SSD" become a famous storage brand in the world!

## Our mission:

Provide customers with high quality products and services!

Provide a positive growth platform for employees!

To create a sustained return on investment for the shareholders!

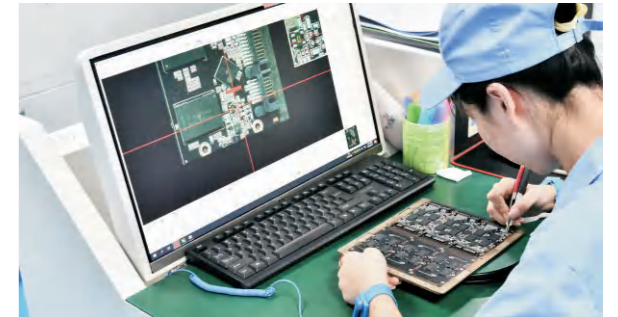
To create the value of justice and honesty for society!

## Our view of quality:

Quality is the life of an enterprise, because remedies need to pay much more.

## Our values:

Pragmatism, innovation, upwards, diligence!





Series	DDR5 UDIMM Series(R51 Series)			
Brand	KingDian			
Capacity	16GB		32GB	
Model Number	R51-DDR5-PC-16GB		R51-DDR5-PC-32GB	
Memory Speed /Frequency	4800MHz	5600MHz	4800MHz	5600MHz
Memory Bandwidth(GB/s)	38400	44800	38400	44800
Rank(1Rx8/2Rx8/8Rx4)	1Rx8	1Rx8	2Rx8	2Rx8
CAS Latency	40-40-40-77	47-47-47-90	40-40-40-77	47-47-47-90
Operating Voltage	1.1V	1.1V	1.1V	1.1V
No. of Memory IC	8/16			
Power Consumption	3W			
Controller IC	NO			
Overclock Support (YES/NO )	NO			
ECC(Error Correction Code)(YES/NO)	NO			
Net Weight (g)	44g			
Gross Weight(g)	80g			
Pin Count	262			
OEM/ODM Support	YES			
Heat Sink / Heat Spreader	YES			
RGB lights	YES			
Form Factor	UDIMM			
Computer Memory Type(DRAM/SDRAM)	DRAM			
Operating Temperature	0~70°C			
Storage Temperature	-40~85°C			
Warranty	3 Years			
No. of Memory Channels (Single/Dual)	(Single/Dual)			
Product Dimension (W x Dx H)in mm	69x30x4.0mm			
Buffered /Un-buffered Memory	Un-buffered Memory			
Memory IC Brand	Micron/Samsung/Sk Hynix			





## DDR4 RGB With Heatsink UDIMM Series(R11 Series)



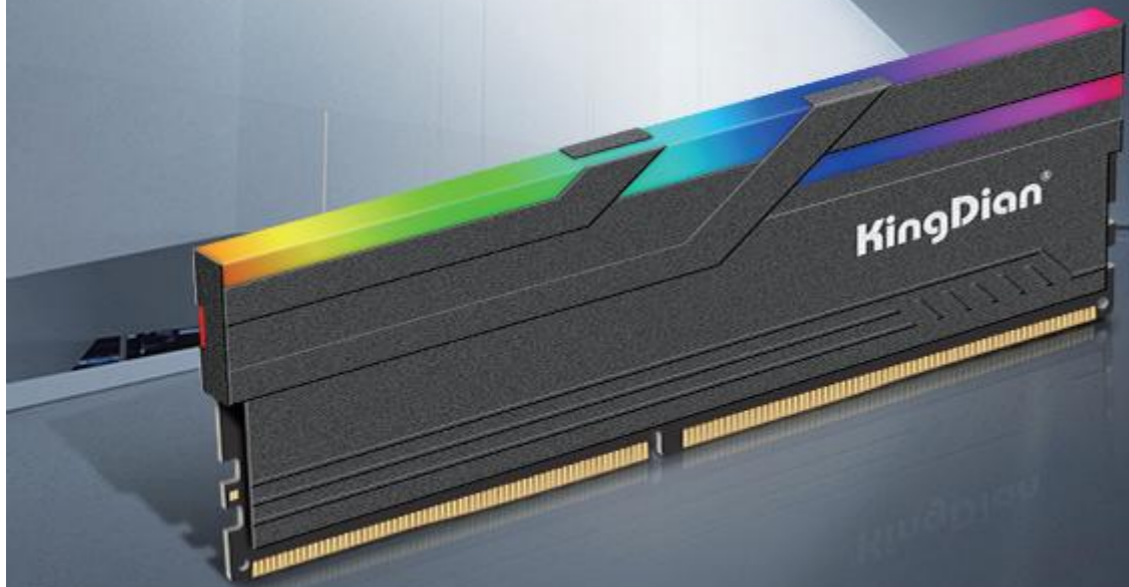
Series	DDR4 RGB With Heatsink UDIMM Series(R11 Series)		
Brand	KingDian		
Capacity	8GB	16GB	32GB
Model Number	R11 DDR4 - PC - 8GB	R11 DDR4 - PC - 16GB	R11 DDR4 - PC - 32GB
Memory Speed /Frequency	2666/3000/3200/3600MHz	2666/3000/3200/3600MHz	2666/3000/3200/3600MHz
Rank(1Rx8/2Rx8/8Rx4)	1Rx8	1Rx8	2Rx8
CAS Latency-2666MHz	19-19-19-43	19-19-19-43	19-19-19-43
CAS Latency-3000MHz	19-19-19-43	19-19-19-43	19-19-19-43
CAS Latency-3200MHz	22-22-22-52	22-22-22-52	22-22-22-52
CAS Latency-3600MHz	18-22-22-42	18-22-22-42	18-22-22-42
No. of Memory IC	4 // 8 // 16		
Operating Voltage	1.2V		
Power Consumption	3W		
Net Weight (g)	44g		
Gross Weight(g)	80g		
Controller IC	NO		
ECC(Error Correction Code)(YES/NO)	NO		
Overclock Support (YES/NO)	NO		
Heat Sink / Heat Spreader	YES		
RGB lights	YES		
OEM/ODM Support	YES		
Pin Count	288		
Form Factor	UDIMM		
Computer Memory Type(DRAM/SDRAM)	DRAM		
Operating Temperature	0~70°C		
Storage Temperature	-40~85°C		
Warranty	3 Years		
No. of Memory Channels (Single/Dual)	(Single/Dual)		
Product Dimension (W x Dx H)in mm	145x46x5.5mm		
Buffered /Un-buffered Memory	Un-buffered Memory		
Memory IC Brand	Micron/Samsung/Sk Hynix		



Series	DDR4 With Heatsink UDIMM Series (H11 Series)			
Brand	KingDian			
Capacity	4GB	8GB	16GB	32GB
Model Number	H11 DDR4-PC-4GB	H11 DDR4-PC-8GB	H11 DDR4-PC-16GB	H11 DDR4-PC-32GB
Memory Speed /Frequency	2400/2666/3200MHz	2666/3200MHz	2666/3200MHz	2666/3200MHz
Rank(1Rx8/2Rx8/8Rx4)	1Rx8	1Rx8	2Rx8	2Rx8
CAS Latency-2400MHz	17-17-17-39			
CAS Latency-2666MHz	19-19-19-43	19-19-19-43	19-19-19-43	19-19-19-43
CAS Latency-3200MHz	22-22-22-52	22-22-22-52	22-22-22-52	22-22-22-52
No. of Memory IC	4//8//16			
Operating Voltage	1.2V			
Power Consumption	3W			
Net Weight (g)	36g			
Gross Weight(g)	72g			
Controller IC	NO			
ECC(Error Correction Code)(YES/NO)	NO			
Overclock Support (YES/NO)	NO			
Heat Sink / Heat Spreader	YES			
OEM/ODM Support	YES			
Pin Count	288			
Form Factor	UDIMM			
Computer Memory Type(DRAM/SDRAM)	DRAM			
Operating Temperature	0~70°C			
Storage Temperature	-40~85°C			
Warranty	3 Years			
No. of Memory Channels (Single/Dual)	(Single/Dual)			
Product Dimension (W x D x H)in mm	145x43x5mm			
Buffered /Un-buffered Memory	Un-buffered Memory			
Memory IC Brand	Micron/Samsung/Sk Hynix			



## DDR4 UDIMM RGB Series(RH41 Series)



Series	DDR4 RGB With Heatsink UDIMM Series(RH41 Series)		
Brand	KingDian		
Capacity	8GB	16GB	32GB
Model Number	RH41 DDR4-PC-8GB	RH41 DDR4-PC-16GB	RH41 DDR4-PC-32GB
Memory Speed /Frequency	2666/3000/3200/3600MHz	2666/3000/3200/3600MHz	2666/3000/3200/3600MHz
Rank(1Rx8/2Rx8/8Rx4)	1Rx8	1Rx8	2Rx8
CAS Latency-2666MHz	19-19-19-43	19-19-19-43	19-19-19-43
CAS Latency-3000MHz	19-19-19-43	19-19-19-43	19-19-19-43
CAS Latency-3200MHz	22-22-22-52	22-22-22-52	22-22-22-52
CAS Latency-3600MHz	18-22-22-42	18-22-22-42	18-22-22-42
No. of Memory IC	4 // 8 // 16		
Operating Voltage	1.2V		
Power Consumption	3W		
Net Weight (g)	52g		
Gross Weight(g)	80g		
Controller IC	NO		
ECC(Error Correction Code)(YES/NO)	NO		
Overclock Support (YES/NO)	NO		
Heat Sink / Heat Spreader	YES		
RGB lights	YES		
OEM/ODM Support	YES		
Pin Count	288		
Form Factor	UDIMM		
Computer Memory Type(DRAM/SDRAM)	DRAM		
Operating Temperature	0~70°C		
Storage Temperature	-40~85°C		
Warranty	3 Years		
No. of Memory Channels (Single/Dual)	(Single/Dual)		
Product Dimension (W x Dx H)in mm	138x52x6mm		
Buffered /Un-buffered Memory	Un-buffered Memory		
Memory IC Brand	Micron/Samsung/Sk Hynix		



Series	DDR4 With Heatsink UDIMM Series(H41 Series)			
Brand	KingDian			
Capacity	4GB	8GB	16GB	32GB
Model Number	H41 DDR4-PC-4GB	H41 DDR4-PC-8GB	H41 DDR4-PC-16GB	H41 DDR4-PC-32GB
Memory Speed /Frequency	2400/2666/3200MHz	2666/3200MHz	2666/3200MHz	2666/3200MHz
Rank(1Rx8/2Rx8/8Rx4)	1Rx8	1Rx8	2Rx8	2Rx8
CAS Latency-2400MHz	17-17-17-39			
CAS Latency-2666MHz	19-19-19-43	19-19-19-43	19-19-19-43	19-19-19-43
CAS Latency-3200MHz	22-22-22-52	22-22-22-52	22-22-22-52	22-22-22-52
No. of Memory IC	4//8//16			
Operating Voltage	1.2V			
Power Consumption	3W			
Net Weight (g)	52g			
Gross Weight(g)	80g			
Controller IC	NO			
ECC(Error Correction Code)(YES/NO)	NO			
Overclock Support (YES/NO)	NO			
Heat Sink / Heat Spreader	YES			
OEM/ODM Support	YES			
Pin Count	288			
Form Factor	UDIMM			
Computer Memory Type(DRAM/SDRAM)	DRAM			
Operating Temperature	0~70°C			
Storage Temperature	-40~85°C			
Warranty	3 Years			
No. of Memory Channels (Single/Dual)	(Single/Dual)			
Product Dimension (W x Dx H)in mm	138x52x6mm			
Buffered /Un-buffered Memory	Un-buffered Memory			
Memory IC Brand	Micron/Samsung/Sk Hynix			





## DDR4 UDIMM RGB Series(RH42 Series)



Series	DDR4 RGB With Heatsink UDIMM Series(RH42 Series)		
Brand	KingDian		
Capacity	8GB	16GB	32GB
Model Number	RH42 DDR4-PC-8GB	RH42 DDR4-PC-16GB	RH42 DDR4-PC-32GB
Memory Speed /Frequency	2666/3000/3200/3600MHz	2666/3000/3200/3600MHz	2666/3000/3200/3600MHz
Rank(1Rx8/2Rx8/8Rx4)	1Rx8	1Rx8	2Rx8
CAS Latency-2666MHz	19-19-19-43	19-19-19-43	19-19-19-43
CAS Latency-3000MHz	19-19-19-43	19-19-19-43	19-19-19-43
CAS Latency-3200MHz	22-22-22-52	22-22-22-52	22-22-22-52
CAS Latency-3600MHz	18-22-22-42	18-22-22-42	18-22-22-42
No. of Memory IC	4 // 8 // 16		
Operating Voltage	1.2V		
Power Consumption	3W		
Net Weight (g)	48g		
Gross Weight(g)	80g		
Controller IC	NO		
ECC(Error Correction Code)(YES/NO)	NO		
Overclock Support (YES/NO)	NO		
Heat Sink / Heat Spreader	YES		
RGB lights	YES		
OEM/ODM Support	YES		
Pin Count	288		
Form Factor	UDIMM		
Computer Memory Type(DRAM/SDRAM)	DRAM		
Operating Temperature	0~70°C		
Storage Temperature	-40~85°C		
Warranty	3 Years		
No. of Memory Channels (Single/Dual)	(Single/Dual)		
Product Dimension (W x Dx H)in mm	135x45x6mm		
Buffered /Un-buffered Memory	Un-buffered Memory		
Memory IC Brand	Micron/Samsung/Sk Hynix		



Series	DDR4 With Heatsink UDIMM Series(H42 Series)			
Brand	KingDian			
Capacity	4GB	8GB	16GB	32GB
Model Number	H42 DDR4-PC-4GB	H42 DDR4-PC-8GB	H42 DDR4-PC-16GB	H42 DDR4-PC-32GB
Memory Speed /Frequency	2400/2666/3200MHz	2666/3200MHz	2666/3200MHz	2666/3200MHz
Rank(1Rx8/2Rx8/8Rx4)	1Rx8	1Rx8	2Rx8	2Rx8
CAS Latency-2400MHz	17-17-17-39			
CAS Latency-2666MHz	19-19-19-43	19-19-19-43	19-19-19-43	19-19-19-43
CAS Latency-3200MHz	22-22-22-52	22-22-22-52	22-22-22-52	22-22-22-52
No. of Memory IC	4//8//16			
Operating Voltage	1.2V			
Power Consumption	3W			
Net Weight (g)	52g			
Gross Weight(g)	80g			
Controller IC	NO			
ECC(Error Correction Code)(YES/NO)	NO			
Overclock Support (YES/NO)	NO			
Heat Sink / Heat Spreader	YES			
OEM/ODM Support	YES			
Pin Count	288			
Form Factor	UDIMM			
Computer Memory Type(DRAM/SDRAM)	DRAM			
Operating Temperature	0~70°C			
Storage Temperature	-40~85°C			
Warranty	3 Years			
No. of Memory Channels (Single/Dual)	(Single/Dual)			
Product Dimension (W x Dx H)in mm	135x45x6mm			
Buffered /Un-buffered Memory	Un-buffered Memory			
Memory IC Brand	Micron/Samsung/Sk Hynix			





Series	DDR5 UDIMM Series			
Brand	KingDian			
Capacity	16GB		32GB	
Model Number	DDR5-PC-16GB		DDR5-PC-32GB	
Memory Speed /Frequency	4800MHz	5600MHz	4800MHz	5600MHz
Memory Bandwidth(GB/s)	38400	44800	38400	44800
Rank(1Rx8/2Rx8/8Rx4)	1Rx8	1Rx8	2Rx8	2Rx8
CAS Latency	40-40-40-77	47-47-47-90	40-40-40-77	47-47-47-90
Operating Voltage	1.1V	1.25V	1.1V	1.25V
No. of Memory IC	8/16			
Power Consumption	3W			
Controller IC	NO			
Overclock Support (YES/NO )	NO			
ECC(Error Correction Code)(YES/NO)	NO			
Net Weight (g)	20g			
Gross Weight(g)	45g			
Pin Count	288			
OEM/ODM Support	YES			
Heat Sink / Heat Spreader	NO			
Form Factor	UDIMM			
Computer Memory Type(DRAM/SDRAM)	DRAM			
Operating Temperature	0~70°C			
Storage Temperature	-40~85°C			
Warranty	3 Years			
No. of Memory Channels (Single/Dual)	(Single/Dual)			
Product Dimension (W x Dx H)in mm	133X30X4.0mm			
Buffered /Un-buffered Memory	Un-buffered Memory			
Memory IC Brand	Micron/Samsung/Sk Hynix			





## DDR5 SODIMM Series



Series	DDR5 SODIMM Series			
Brand	KingDian			
Capacity	16GB		32GB	
Model Number	DDR5-NB-16GB		DDR5-NB-32GB	
Memory Speed /Frequency	4800MHz	5600MHz	4800MHz	5600MHz
Memory Bandwidth(GB/s)	38400	44800	38400	44800
Rank(1Rx8/2Rx8/8Rx4)	1Rx8	1Rx8	2Rx8	2Rx8
CAS Latency	40-40-40-77	47-47-47-90	40-40-40-77	47-47-47-90
Operating Voltage	1.1V	1.1V	1.1V	1.1V
No. of Memory IC	8/16			
Power Consumption	3W			
Controller IC	NO			
Overclock Support (YES/NO )	NO			
ECC(Error Correction Code)(YES/NO)	NO			
Net Weight (g)	10g			
Gross Weight(g)	45g			
Pin Count	262			
OEM/ODM Support	YES			
Heat Sink / Heat Spreader	NO			
Form Factor	SODIMM			
Computer Memory Type(DRAM/SDRAM)	DRAM			
Operating Temperature	0~70°C			
Storage Temperature	-40~85°C			
Warranty	3 Years			
No. of Memory Channels (Single/Dual)	(Single/Dual)			
Product Dimension (W x Dx H)in mm	69x30x4.0mm			
Buffered /Un-buffered Memory	Un-buffered Memory			
Memory IC Brand	Micron/Samsung/Sk Hynix			



## DDR4 UDIMM Series



Series	DDR4 UDIMM Series			
Brand	KingDian			
Capacity	4GB	8GB	16GB	32GB
Model Number	DDR4-PC-4GB	DDR4-PC-8GB	DDR4-PC-16GB	DDR4-PC-32GB
Memory Speed /Frequency	2400/2666MHz	2400/2666/3200MHz	2666/3200MHz	2666/3200MHz
Memory Bandwidth(GB/s)	19200	21300	21300	21300
Rank(1Rx8/2Rx8/8Rx4)	1Rx8	1Rx8	2Rx8	2Rx8
CAS Latency-2400MHz	17-17-17-39	17-17-17-39		
CAS Latency-2666MHz	19-19-19-43	19-19-19-43	19-19-19-43	19-19-19-43
CAS Latency-3200MHz		22-22-22-52	22-22-22-52	22-22-22-52
No. of Memory IC	4//8//16			
Power Consumption	3W			
Controller IC	NO			
Overclock Support (YES/NO)	NO			
ECC(Error Correction Code)(YES/NO)	NO			
Net Weight (g)	20g			
Gross Weight(g)	45g			
Pin Count	288			
Operating Voltage	1.2V			
OEM/ODM Support	YES			
Heat Sink / Heat Spreader	NO			
Form Factor	UDIMM			
Computer Memory Type(DRAM/SDRAM)	DRAM			
Operating Temperature	0~70°C			
Storage Temperature	-40~85°C			
Warranty	3 Years			
No. of Memory Channels (Single/Dual)	(Single/Dual)			
Product Dimension (W x Dx H)in mm	133x30x4.0mm			
Buffered /Un-buffered Memory	Un-buffered Memory			
Memory IC Brand	Micron/Samsung/Sk Hynix			



Series	DDR4 SODIMM Series			
Brand	KingDian			
Capacity	4GB	8GB	16GB	32GB
Model Number	DDR4-NB-4GB	DDR4-NB-8GB	DDR4-NB-16GB	DDR4-NB-32GB
Memory Speed /Frequency	2400/2666MHz	2400/2666/3200MHz	2666/3200MHz	2666/3200MHz
Memory Bandwidth(GB/s)	19200	21300	21300	21300
Rank(1Rx8/2Rx8/8Rx4)	1Rx8	1Rx8	2Rx8	2Rx8
CAS Latency-2400MHz	17-17-17-39	17-17-17-39		
CAS Latency-2666MHz	19-19-19-43	19-19-19-43	19-19-19-43	19-19-19-43
CAS Latency-3200MHz		22-22-22-52	22-22-22-52	22-22-22-52
No. of Memory IC	4//8//16			
Operating Voltage	1.2V			
Power Consumption	3W			
Net Weight (g)	15g			
Gross Weight(g)	40g			
Controller IC	NO			
Overclock Support (YES/NO)	NO			
Heat Sink / Heat Spreader	NO			
ECC(Error Correction Code)(YES/NO)	NO			
Pin Count	260			
OEM/ODM Support	YES			
Computer Memory Type(DRAM/SDRAM)	DRAM			
Operating Temperature	0~70°C			
Storage Temperature	-40~85°C			
Warranty	3 Years			
Form Factor	SODIMM			
No. of Memory Channels (Single/Dual)	(Single/Dual)			
Product Dimension (W x Dx H)in mm	70x30x3.5mm			
Buffered /Un-buffered Memory	Un-buffered Memory			
Memory IC Brand	Micron/Samsung/Sk Hynix			





## DDR3 UDIMM Seires



Series	DDR3 UDIMM Seires		
Brand	KingDian		
Capacity	2GB	4GB	8GB
Model Number	DDR3-PC-2GB	DDR3-PC-4GB	DDR3-PC-8GB
Memory Speed /Frequency	1333MHz	1333/1600MHz	1333/1600MHz
Memory Bandwidth (GB/s)	10700	12800	12800
Rank(1Rx8/2Rx8/8Rx4)	1Rx8	1Rx8/2Rx8	2Rx8
CAS Latency-1333MHz	9-9-9-24	9-9-9-24	9-9-9-24
CAS Latency-1600MHz		11-11-11-28	11-11-11-28
No. of Memory IC	8	8/16	8/16
Pin Count	240		
Net Weight (g)	17g		
Gross Weight(g)	42g		
ECC(Error Correction Code)(YES/NO)	NO		
Overclock Support (YES/NO)	NO		
Heat Sink / Heat Spreader	NO		
OEM/ODM Support	YES		
Operating Voltage	1.5V		
Controller IC	None		
Computer Memory Type(DRAM/SDRAM)	DRAM		
No. of Memory Channels (Single/Dual)	Single		
Operating Temperature	0~70°C		
Storage Temperature	-40~85°C		
Form Factor	UDIMM		
Warranty	3 Years		
Power Consumption	6W Max		
Product Dimension (W x Dx H)in mm	133x30x4.0mm		
Buffered /Un-buffered Memory	Un-buffered Memory		
Memory IC Brand	Micron/Samsung/Sk Hynix		



Series	DDR3 SODIMM Series		
Brand	KingDian		
Capacity	2GB	4GB	8GB
Model Number	DDR3-NB-2GB	DDR3-NB-4GB	DDR3-NB-8GB
Memory Speed /Frequency	1333MHz	1333/1600MHz	1333/1600MHz
Memory Bandwidth (GB/s)	10700	12800	12800
Rank(1Rx8/2Rx8/8Rx4)	1Rx8	1Rx8/2Rx8	2Rx8
CAS Latency-1333MHz	9-9-9-24	9-9-9-24	9-9-9-24
CAS Latency-1600MHz		11-11-11-28	11-11-11-28
No. of Memory IC	8	8/16	8/16
Pin Count	204		
Overclock Support (YES/NO)	NO		
Heat Sink / Heat Spreader	NO		
ECC(Error Correction Code)(YES/NO)	NO		
OEM/ODM Support	YES		
Net Weight (g)	13g		
Gross Weight(g)	38g		
Operating Voltage	1.35V		
Controller IC	None		
Computer Memory Type(DRAM/SDRAM)	DRAM		
Operating Temperature	0~70°C		
Storage Temperature	-40~85°C		
No. of Memory Channels (Single/Dual)	Single		
Warranty	3 Years		
Power Consumption	6W Max		
Form Factor	SODIMM		
Product Dimension (W x Dx H)in mm	68x30x3.2mm		
Buffered /Un-buffered Memory	Un-buffered Memory		
Memory IC Brand	Micron/Samsung/Sk Hynix		

