



NANYA
Technology Corporation



DRAM Accelerating **AI** Everywhere

Content

P2	About Nanya
P3	Consumer DRAM
P4	KGD
P5	Mobile DRAM
P7	Server Module PC Module
P9	Authorized Distributors
P10	Sales Representatives

Nanya Technology

Nanya Technology brings 30 years of DRAM manufacturing expertise, anchored in innovation and responsive customer support. Leveraging our 10nm-class technology, we deliver high performance, energy-efficient solutions to empower AI generation.



High-performance Memory

DDR5/LPDDR5



Customizing AI Future

Custom ultra-high-bandwidth memory



Capacity Expansion

USD 16B+ investment
Full capacity 45K wafer/month

Comprehensive Product Portfolio



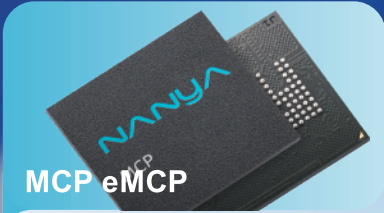
Standard

DDR2~DDR5
SODIMM, UDIMM (ECC available)
RDIMM, CUDIMM, CSODIMM



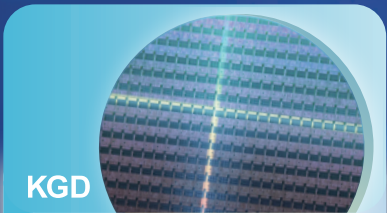
Low Power

LPDDR2~LPDDR5/5X



MCP eMCP

SLC NAND+LPDDR
2D MLC~3D NAND+LPDDR



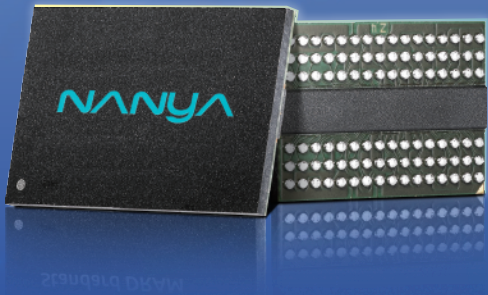
KGD

DDR2~DDR4
LPDDR2~LPDDR5/5X



Custom DRAM

Non-JEDEC Spec
High Bandwidth
High Density
3D IC, TSV, WoW



Consumer DRAM

DDR5 SDRAM

● Developing

Density	Org	Voltage	Package	Speed	Commercial	IT	Automotive	
							G2	G3
16Gb	x4/x8 x16	1.1V	82-ball BGA 106-ball BGA	5600	Now	Now	-	-
	x4/x8			6400	●	●	-	-

DDR4 SDRAM

Density	Org	Voltage	Package	Speed	Commercial	IT	Automotive	
							G2	G3
4Gb	x4/x8 x16	1.2V	78-ball BGA 96-ball BGA	3200	Now	Now	-	-
8Gb	x4/x8 x16	1.2V	78-ball BGA 96-ball BGA	3200	Now	Now	-	-
16Gb	x4/x8 x16	1.2V	78-ball BGA 96-ball BGA	3200	Now	Now	-	-
32Gb (DDP)	x8	1.2V	78-ball BGA	3200	Now	-	-	-

DDR3 SDRAM

Density	Org	Voltage	Package	Speed	Commercial	IT	Automotive	
							G2	G3
1Gb	x8 x16	1.5V 1.35V	78-ball BGA 96-ball BGA	1866/2133	Now	Now	Now	Now
2Gb	x8 x16	1.5V 1.35V	78-ball BGA 96-ball BGA	1866/2133	Now	Now	Now	Now
4Gb	x8 x16	1.5V 1.35V	78-ball BGA 96-ball BGA	1866/2133	Now	Now	Now	Now
8Gb (DDP)	x16	1.5V 1.35V	96-ball BGA	1866	Now	Now	Now	Now

DDR2 SDRAM

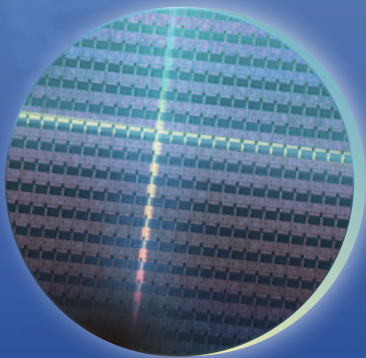
Density	Org	Voltage	Package	Speed	Commercial	IT	Automotive	
							G2	G3
1Gb	x8 x16	1.8V	60-ball BGA 84-ball BGA	1066	Now	Now	Now	Now



Consumer DRAM

Available Generation LPDDR5/5X | LPDDR4/4X | LPDDR3 | LPDDR2 | DDR4 | DDR3
Available Densities 16Gb | 8Gb | 4Gb | 2Gb | 1Gb

KGD



KGD

● Developing

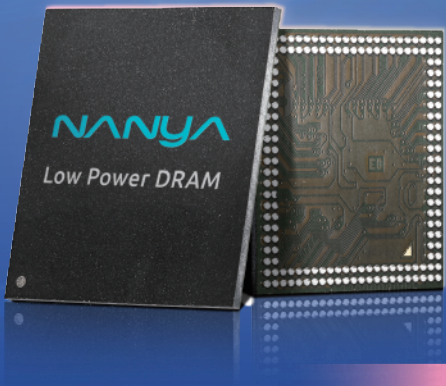
Density	Org	Voltage	Generation	Speed	Commercial
1Gb	x8/x16	1.35V/1.5V	DDR3	2133	Now
2Gb					Now
4Gb					Now
4Gb	x8/x16	1.2V	DDR4	3200	Now
8Gb					Now
1Gb	x16/x32	1.2V	LPDDR2	1066	Now
2Gb	x16/x32				Now
4Gb	x16/x32				Now
4Gb	x16/x32	1.2V	LPDDR3	2133	Now
8Gb	x16/x32				Now
2Gb	x16	1.1V	LPDDR4	4267	Now
4Gb				4267	Now
8Gb				3733/4267	Now/●
16Gb				4267	●
2Gb	x16	1.1V (VDDQ 0.6V)	LPDDR4X	4267	Now
4Gb					Now
8Gb					Now
16Gb					●
8Gb	x16	1.05V	LPDDR5/5X	7500	●
16Gb					●



KGD

Available Generation LPDDR5/5X | LPDDR4/4X | LPDDR3 | LPDDR2
Available Densities 128Gb | 64Gb | 32Gb | 16Gb | 8Gb | 4Gb | 2Gb | 1Gb

Mobile DRAM



LPDDR5/5X

● Developing

Density	Org	Voltage	Package	Speed	Commercial	IT	Automotive		
							G1	G2	G3
8Gb	x16	1.05V	245-FBGA SDP	6400/7500	●	-	-	-	-
			315-FBGA SDP		●	●	-	●	●
16Gb	x16	1.05V	315-FBGA SDP	6400/7500	●	●	-	●	●
	x32		245-FBGA DDP		●	-	-	-	-
	x32		315-FBGA DDP		●	●	-	●	●
32Gb	x32	1.05V	315-FBGA DDP	6400/7500	●	●	-	●	●
	x64		441-FBGA QDP		●	-	-	●	●
64Gb	x32	1.05V	315-FBGA QDP	6400/7500	●	●	-	●	●
	x64		441-FBGA QDP		●	-	-	●	●
128Gb	x32	1.05V	315-FBGA ODP	6400/7500	●	-	-	-	-

LPDDR4X

Density	Org	Voltage	Package	Speed	Commercial	IT	Automotive		
							G1	G2	G3
2Gb	x16	1.1V (VDDQ=0.6V)	200-FBGA SDP	4267	Now	-	-	Now	Now
4Gb	x16	1.1V (VDDQ=0.6V)	200-FBGA SDP	4267	Now	Now	-	Now	Now
	x32		200-FBGA DDP			Now	-	-	-
8Gb	x16	1.1V (VDDQ=0.6V)	200-FBGA SDP	4267	Now	Now	-	Now	Now
	x32		200-FBGA DDP		Now	Now	-	Now	Now
16Gb	x16	1.1V (VDDQ=0.6V)	200-FBGA SDP	4267	Now	●	-	●	●
	x32		200-FBGA DDP		Now	Now	●	Now	Now
	x64		376-PoP QDP		Now	-	-	-	-
32Gb	x32	1.1V (VDDQ=0.6V)	200-FBGA QDP	4267	Now	Now	-	Now	Now
	x32		200-FBGA DDP		Now	●	●	●	●
	x64		376-PoP QDP		Now	-	-	-	-
64Gb	x32	1.1V (VDDQ=0.6V)	200-FBGA QDP	4267	Now	●	●	●	●
	x64		376-PoP QDP		●	-	-	-	-

LPDDR4

Density	Org	Voltage	Package	Speed	Commercial	IT	Automotive		
							G1	G2	G3
2Gb	x16	1.1V	200-FBGA SDP	4267	Now	-	-	Now	Now
4Gb	x16	1.1V	200-FBGA SDP	4267	Now	Now	-	Now	Now
	200-FBGA DDP		Now			-	Now	Now	
	x32		200-FBGA DDP	3733	-	-	Now	-	-
8Gb	x16	1.1V	200-FBGA SDP	4267	Now	Now	-	Now	Now
	x32		200-FBGA DDP		Now	Now	Now	Now	Now
16Gb	x16	1.1V	200-FBGA SDP	4267	Now	●	-	●	●
	x32	1.1V	200-FBGA DDP		Now	Now	-	Now	Now
32Gb	x32	1.1V	200-FBGA DDP	4267	Now	●	-	●	●
			200-FBGA QDP	3733	Now	Now	-	Now	Now
64Gb	x32	1.1V	200-FBGA QDP	4267	Now	●	-	●	●

LPDDR3

● Developing

Density	Org	Voltage	Package	Speed	Commercial	IT	Automotive	
							G2	G3
4Gb	x16/x32	1.2V	178-FBGA SDP	1866/2133	Now	-	-	-
8Gb	x32	1.2V	178-FBGA SDP	1866/2133	Now	-	-	-
	x64		216-PoP DDP	1866	Now	-	-	-
			256-PoP DDP		Now	-	-	-
			16Gb	x32	1.2V	178-FBGA DDP	1866/2133	Now
x64	168-PoP DDP	1866		Now		-	-	-
	256-PoP DDP			Now		-	-	-
	216-PoP DDP			Now		-	-	-
	32Gb			1.2V		178-FBGA QDP	1866/2133	Now
x64	256-PoP QDP	1866	Now		-	-	-	
	216-PoP QDP		Now		-	-	-	

LPDDR2

Density	Org	Voltage	Package	Speed	Commercial	IT	Automotive	
							G2	G3
1Gb	x16/x32	1.2V	134-FBGA SDP	1066	Now	-	Now	-
	x32		168-PoP SDP			-	Now	-
2Gb	x16/x32	1.2V	134-FBGA SDP	1066	Now	Now	Now	-
			168-PoP SDP			-	-	-
	x32		134-FBGA DDP	-	-	Now	-	
					-	-	Now	-
4Gb	x16/x32	1.2V	134-FBGA SDP	1066	Now	Now	Now	-
	x32		168-PoP SDP			-	-	-
	x64		216-PoP DDP			-	-	-
8Gb	x32	1.2V	168-PoP DDP	1066	Now	-	-	-
			134-FBGA DDP			Now	-	-
	x64		216-PoP DDP			Now	-	-
							-	-

MCP

Type	SLC NAND		DRAM			Package	Commercial	WT	IT	Automotive	
	Density	Org	Gen	Density	Org					G2	G3
2+1	2Gb	x8	LPDDR2	1Gb	x32	162b	Now	-	-	-	-
2+2	2Gb			2Gb			Now	-	-	-	-
4+2	4Gb			2Gb			Now	-	-	-	-
4+4	4Gb			4Gb			Now	-	-	-	-
4+2	4Gb	x8	LPDDR4X	2Gb	x16	149b	-	-	Now	-	-
4+4	4Gb			4Gb			-	-	Now	-	-
8+8	8Gb			8Gb			-	-	Now	Now	Now

eMCP/uMCP

Type	MLC/3D TLC NAND		DRAM			Package	Commercial	WT	IT	Automotive	
	Density	Org	Gen	Density	Org					G2	G3
8+8	8GB	x8	LPDDR3	8Gb	x32	221b	Now	-	-	-	-
16+8	16GB			8Gb			Now	-	-	-	-
16+16	16GB			16Gb			Now	-	-	-	-
8+8	8GB			8Gb			Now	-	-	-	-
16+16	16GB	x8	LPDDR4X	16Gb	x32	254b	Now	-	-	-	-
64+32	64GB			32Gb			●	-	-	-	-



Mobile DRAM

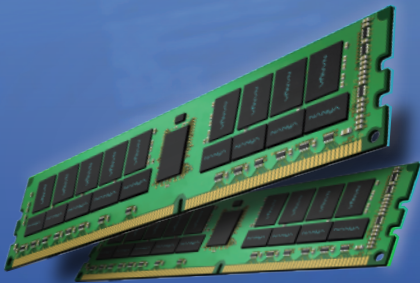


MCP



eMCP

Available Generation DDR5 | DDR4
Available Densities 128GB | 64GB | 32GB | 16GB | 8GB



Server Module

DDR5 RDIMM

● Developing

Density	Org	Voltage	DRAM	Speed	Availability
16GB	1Rx8	1.1V	16Gb SDP	5600	Now
				6400/7200	●
32GB	1Rx4	1.1V	16Gb SDP	5600	Now
	2Rx8			6400/7200	●
64GB	2Rx4	1.1V	16Gb SDP	6400/7200	●
128GB	4Rx4	1.1V	16Gb 3DS-2H	6400/7200	●

DDR4 RDIMM

Density	Org	Voltage	DRAM	Speed	Availability
8GB	1Rx8	1.2V	8Gb SDP	3200	Now
16GB	1Rx4	1.2V	8Gb SDP	3200	Now
	2Rx8				
32GB	2Rx4	1.2V	8Gb SDP	3200	Now

Available Generation DDR5 | DDR4
Available Densities 32GB | 16GB | 8GB | 4GB



Server Module

PC Module

DDR5 SODIMM

● Developing

Density	Org	Voltage	DRAM	Speed	Availability
8GB	1Rx16	1.1V	16Gb SDP	5600	Now
16GB	1Rx8	1.1V	16Gb SDP	5600	Now
32GB	2Rx8	1.1V	16Gb SDP	5600	Now

DDR5 UDIMM

Density	Org	Voltage	DRAM	Speed	Availability
8GB	1Rx16	1.1V	16Gb SDP	5600	Now
16GB	1Rx8	1.1V	16Gb SDP	5600	Now
32GB	2Rx8	1.1V	16Gb SDP	5600	Now

DDR5 CSODIMM

Density	Org	Voltage	DRAM	Speed	Availability
8GB	1Rx16	1.1V	16Gb SDP	6400/7200/8000	●
16GB	1Rx8	1.1V	16Gb SDP	6400/7200/8000	Now
32GB	2Rx8	1.1V	16Gb SDP	6400/7200/8000	Now

DDR5 CUDIMM

● Developing

Density	Org	Voltage	DRAM	Speed	Availability
8GB	1Rx16	1.1V	16Gb SDP	6400/7200/8000	●
16GB	1Rx8	1.1V	16Gb SDP	6400/7200/8000	Now
32GB	2Rx8	1.1V	16Gb SDP	6400/7200/8000	Now

DDR5 ECC-SODIMM

Density	Org	Voltage	DRAM	Speed	Availability
16GB	1Rx8	1.1V	16Gb SDP	5600	●
32GB	2Rx8	1.1V	16Gb SDP	5600	●

DDR4 SODIMM

Density	Org	Voltage	DRAM	Speed	Availability
4GB	1Rx16	1.2V	8Gb SDP	3200	Now
8GB	1Rx8	1.2V	8Gb SDP	3200	Now
16GB	2Rx8	1.2V	8Gb SDP	3200	Now
	1Rx8		16Gb SDP		
32GB	2Rx8	1.2V	16Gb SDP	3200	Now

DDR4 UDIMM

Density	Org	Voltage	DRAM	Speed	Availability
4GB	1Rx16	1.2V	8Gb SDP	3200	Now
8GB	1Rx8	1.2V	8Gb SDP	3200	Now
16GB	2Rx8	1.2V	8Gb SDP	3200	Now
	1Rx8		16Gb SDP		
32GB	2Rx8	1.2V	16Gb SDP	3200	Now

DDR4 ECC-SODIMM

Density	Org	Voltage	DRAM	Speed	Availability
8GB	1Rx8	1.2V	8Gb SDP	2666	Now
16GB	2Rx8	1.2V	8Gb SDP	3200	Now
	1Rx8		16Gb SDP		
32GB	2Rx8	1.2V	16Gb SDP	3200	Now

DDR4 ECC-UDIMM

Density	Org	Voltage	DRAM	Speed	Availability
8GB	1Rx8	1.2V	8Gb SDP	2666	Now



PC Module

Authorized Distributors

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