



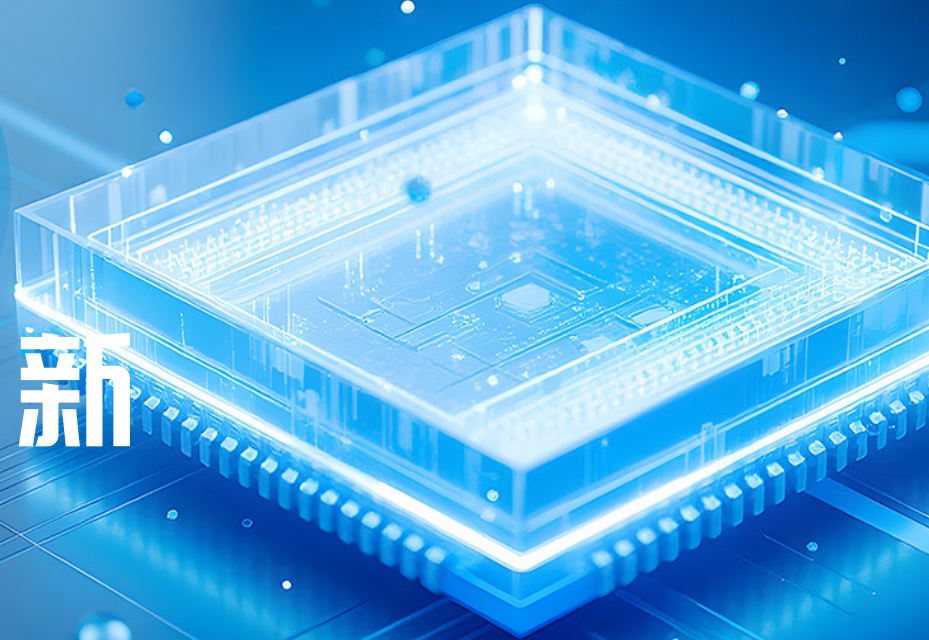
2026

兆易创新选型手册

PRODUCT
SELECTION GUIDE



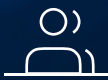
关于兆易创新



2005 年
成立于北京



2016 年
上海证券交易所成功上市
(SSE 603986)



20,000+
全球客户

兆易创新科技集团股份有限公司（股票代码603986）是全球领先的Fabless芯片供应商，成立于2005年4月，总部设于中国北京，在全球多个国家和地区设有分支机构。公司致力于构建以存储器、微控制器、传感器、模拟产品为核心驱动力的完整生态体系，为工业、汽车、计算、消费电子、物联网、移动应用以及通信领域的客户提供完善的产品技术和服。同时，公司与多家世界知名晶圆厂、封装测试厂建立战略合作伙伴关系，共同推进半导体领域的技术创新。欲了解更多信息，请访问：www.GigaDevice.com。



TOP1

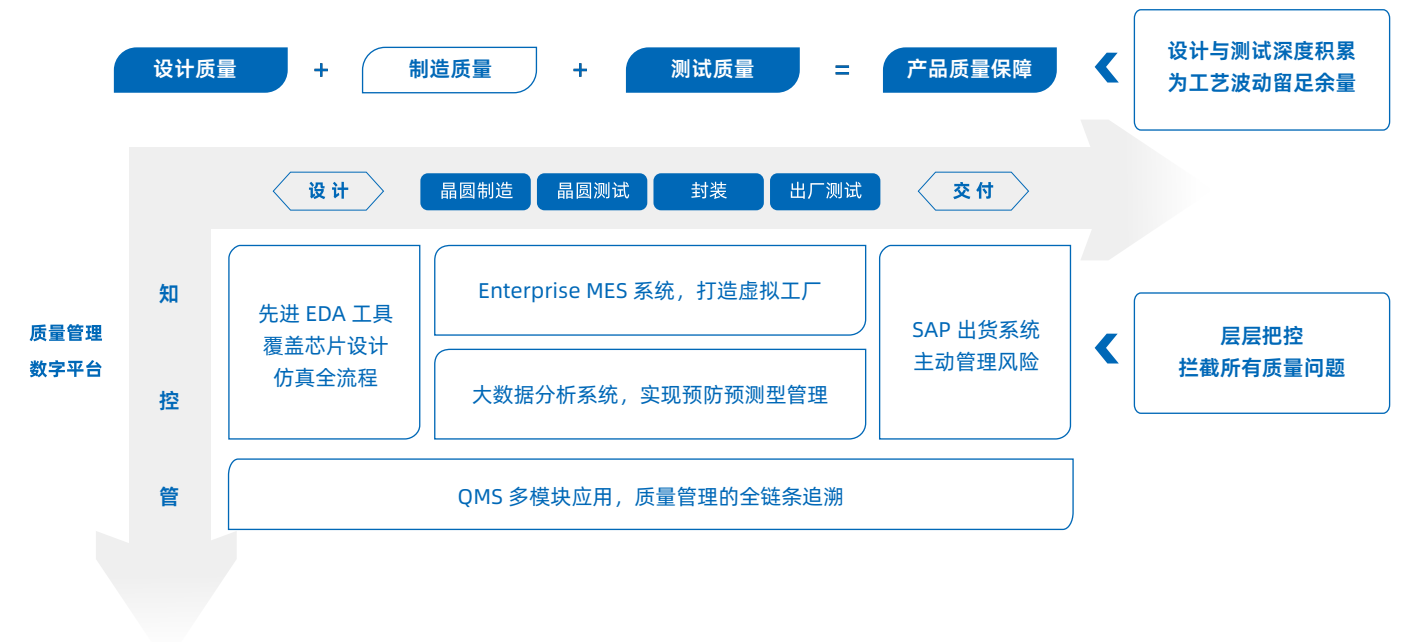
32-bit MCU
中国品牌排名第一



TOP2

SPI NOR Flash
全球市场排名第二

端到端的质量保障



SPI NOR Flash 产品特性

Flash Voltage	3V							1.8V							1.65V-3.6V			1.8V VCC, 1.2V VIO			1.2V	
Family	D	Q	B	F	T	R	X	LD	LQ	LB	LE	LF	LT	LR	LX	WD	WQ	WB	NE	NF	NX	UF
Part No.	xxE	xxE xxH xxM	xxE xxF xxH	xxF	xxE	xxE xxF	xxE	xxE	xxE xxH	xxE xxF xxH	xxE xxH xxL	xxE xxF xxJ	xxE xxJ	xxE xxF	xxE xxJ	xxE	xxE xxH xxM	xxE xxH	xxH	xxF xxJ	xxJ	xxE
Single I/O (1-1-1)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Dual Output (1-1-2)	•	•	*	•		*		•	•	*	•	•		*		•	•	•	•	•		•
Dual I/O (1-2-2)		•	*	•		*			•	*	•	•		*			•	•	•	•		•
Quad Output (1-1-4)		•	•	•	•	•			•	•	•	•	•	•			•	•	•	•		•
Quad I/O (1-4-4)		•	•	•	•	•			•	•	•	•	•	•			•	•	•	•		•
Octal Output (1-1-8)							•								•						•	
Octal I/O (1-8-8)							•								•						•	
QPI (4-4-4)			*		•				•	•	•	•	•						•	•		•
OPI (8-8-8)							•								•						•	
DTR		*	*	•	•		•			*	*	•	•		•				•	•	•	•
H/W Reset (RESET# Pin)		*	*	•	•	*	•		*	*	*	*	•	*	•		*	*	•	•	•	*
S/W Reset		•	•	•	•	•	•		•	•	•	•	•	•	•		•	•	•	•	•	•
H/W Write Protection (WP# Pin)	•	•	*	*	•	*	•	•	•	*	•		•	*	•							

SPI NOR Flash 工规产品选型

Part No.	Density	Voltage	Organization	I/O Bus	Frequency (MHz)	Packages
GD25D05E	512Kb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual Output	104MHz(x1) 80MHz(x2)	USON6 1.2x1.2mm USON8 1.5x1.5mm USON8 3x2mm SOP8 150mil
GD25D10E	1Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual Output	104MHz(x1) 80MHz(x2)	USON6 1.2x1.2mm USON8 1.5x1.5mm USON8 3x2mm SOP8 150mil
GD25D20E	2Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual Output	104MHz(x1) 80MHz(x2)	USON6 1.2x1.2mm USON8 1.5x1.5mm USON8 3x2mm SOP8 150mil
GD25Q20E	2Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	USON8 1.5x1.5mm USON8 3x2mm SOP8 150mil SOP8 208mil
GD25D40E	4Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual Output	104MHz(x1) 80MHz(x2)	USON6 1.2x1.2mm USON8 1.5x1.5mm USON8 3x2mm SOP8 150mil
GD25Q40E	4Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	USON8 1.5x1.5mm USON8 3x2mm SOP8 150mil SOP8 208mil
GD25B80E	8Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil
GD25D80E	8Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual Output	104MHz(x1) 80MHz(x2)	USON8 1.5x1.5mm USON8 3x2mm SOP8 150mil
GD25Q80E	8Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	USON8 3x2mm USON8 3x4mm SOP8 150mil SOP8 208mil WSON8 6x5mm
GD25Q16M	16Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4) 80MHz(DTR)	USON8 1.5x1.5mm USON8 3x2mm USON8 3x4mm USON8 4x4mm SOP8 150mil SOP8 208mil
GD25B16E	16Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	USON8 3x2mm USON8 3x4mm USON8 4x4mm SOP8 150mil SOP8 208mil
GD25Q16E	16Mb	2.7V-3.6V	4KB / 32KB / 64KB			

SPI NOR Flash 工规产品选型

Part No.	Density	Voltage	Organization	I/O Bus	Frequency (MHz)	Packages
GD25R256E	256Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	SOP16 300mil WSON8 6x5mm WSON8 8x6mm
GD25B512MF	512Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP16 300mil WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD25F512MF	512Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP16 300mil WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD25R512MF	512Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	SOP16 300mil WSON8 8x6mm
GD25T512ME	512Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Quad	166MHz(x1, x4) 200MHz(DTR)	TFBGA24 8x6mm (5x5 ball array)
GD25X512ME	512Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Octal	166MHz(x1, x8) 200MHz(DTR)	SOP16 300mil TFBGA24 8x6mm (5x5 ball array)
GD55B01GF	1Gb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP16 300mil WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD55F01GF	1Gb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP16 300mil WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD55T01GE	1Gb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Quad	166MHz(x1, x4) 200MHz(DTR)	TFBGA24 8x6mm (5x5 ball array)
GD55X01GE	1Gb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Octal	166MHz(x1, x8) 200MHz(DTR)	SOP16 300mil TFBGA24 8x6mm (5x5 ball array)
GD55B02GF	2Gb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP16 300mil TFBGA24 8x6mm (5x5 ball array)
GD55F02GF	2Gb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	TFBGA24 8x6mm (5x

SPI NOR Flash 工规产品选型

Part No.	Density	Voltage	Organization	I/O Bus	Frequency (MHz)	Packages
GD25LB64H	64Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4) 104MHz(DTR)	USON8 3x4mm USON8 4x4mm SOP8 208mil WSON8 6x5mm
GD25LE64H	64Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	WLCSP (4-4 ball array) USON8 3x4mm USON8 4x4mm
GD25LQ64H	64Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4) 104MHz(DTR)	USON8 3x4mm USON8 4x4mm SOP8 150mil SOP8 208mil WSON8 6x5mm
GD25LB64E	64Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	USON8 3x4mm USON8 4x4mm SOP8 150mil SOP8 208mil WSON8 6x5mm
GD25LE64E	64Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4) 104MHz(DTR)	WLCSP (4-4 ball array) FO-USON8 3x2mm USON8 3x4mm USON8 4x4mm SOP8 150mil SOP8 208mil
GD25LQ64E	64Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	USON8 3x4mm USON8 4x4mm SOP8 150mil SOP8 208mil WSON8 6x5mm
GD25LR64E	64Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	SOP8 208mil WSON8 6x5mm
GD25LT64J	64Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Quad	200MHz(x1, x4) 200MHz(DTR)	USON8 4x4mm SOP8 208mil WSON8 6x5mm TFBGA24 8x6mm (5x5 ball array)
GD25LX64J	64Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Octal	200MHz(x1, x8) 200MHz(DTR)	WLCSP (4x6 ball array) TFBGA24 8x6mm (5x5 ball array)
GD25LB128H	128Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4) 104MHz(DTR)	USON8 3x4mm SOP8 150mil SOP8 208mil WSON8 6x5mm
GD25LE128H	128Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	WLCSP (4-4 ball array) USON8 4x4mm SOP8 150mil SOP8 208mil WSON

SPI NOR Flash 工规产品选型

Part No.	Density	Voltage	Organization	I/O Bus	Frequency (MHz)	Packages
GD55LB01GF	1Gb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP16 300mil WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD55LF01GF	1Gb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP16 300mil WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD55LR01GF	1Gb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP16 300mil WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD55LT01GE	1Gb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Quad	166MHz(x1, x4) 200MHz(DTR)	TFBGA24 8x6mm (5x5 ball array)
GD55LX01GE	1Gb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Octal	166MHz(x1, x8) 200MHz(DTR)	SOP16 300mil TFBGA24 8x6mm (5x5 ball array)
GD55LB02GF	2Gb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP16 300mil TFBGA24 8x6mm (5x5 ball array)
GD55LF02GF	2Gb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	TFBGA24 8x6mm (5x5 ball array)
GD55LT02GE	2Gb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Quad	166MHz(x1, x4) 200MHz(DTR)	TFBGA24 8x6mm (5x5 ball array)
GD55LX02GE	2Gb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Octal	166MHz(x1, x8) 200MHz(DTR)	TFBGA24 8x6mm (5x5 ball array)
GD25WD05E	512Kb	1.65V-3.6V	4KB / 32KB / 64KB	Single / Dual Output	104MHz(x1) 80MHz(x2)	USON6 1.2x1.2mm USON8 1.5x1.5mm USON8 3x2mm SOP8 150mil
GD25WD10E	1Mb	1.65V-3.6V	4KB / 32KB / 64KB	Single / Dual Output	104MHz(x1) 80MHz(x2)	USON6 1.2x1.2mm USON8 1.5x1.5mm USON8 3x2mm SOP8 150mil
GD25WD20E	2Mb	1.65V-3.6V	4KB / 32KB / 64KB	Single / Dual Output	104MHz(x1) 80MHz(x2)	USON6 1.2x1.2mm USON8 1.5x1.5mm USON8 3x2mm SOP8 150mil

SPI NOR Flash 工规产品选型

Part No.	Density	Voltage	Organization	I/O Bus	Frequency (MHz)	Packages
GD25NF128J	128Mb	1.65V-2.0V/1.10V-1.30V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP16 300mil TFBGA24 8x6mm (5x5 ball array)
GD25NX128J	128Mb	1.65V-2.0V/1.10V-1.30V	4KB / 32KB / 64KB	Single / Octal	200MHz(x1, x8) 200MHz(DTR)	TFBGA24 8x6mm (5x5 ball array)
GD25NF256F	256Mb	1.65V-2.0V/1.10V-1.30V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP16 300mil TFBGA24 8x6mm (5x5 ball array)
GD25NE256H	256Mb	1.65V-2.0V/1.10V-1.30V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4) 104MHz(DTR)	TFBGA24 8x6mm (5x5 ball array)
GD25NF512MF	512Mb	1.65V-2.0V/1.10V-1.30V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP16 300mil TFBGA24 8x6mm (5x5 ball array)
GD55NF01GF	1Gb	1.65V-2.0V/1.10V-1.30V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP16 300mil TFBGA24 8x6mm (5x5 ball array)
GD55NF02GF	2Gb	1.65V-2.0V/1.10V-1.30V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	TFBGA24 8x6mm (5x5 ball array)
GD25UF80E	8Mb	1.14V-1.26V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4) 80MHz(DTR)	WLCSP (4-4 ball array) USON8 3x2mm SOP8 150mil SOP8 208mil
GD25UF16E	16Mb	1.14V-1.26V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4) 80MHz(DTR)	WLCSP (3-2-3 ball array) USON8 3x2mm SOP8 150mil SOP8 208mil
GD25UF32E	32Mb	1.14V-1.26V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4) 80MHz(DTR)	USON8 3x2mm SOP8 150mil SOP8 208mil
GD25UF64E	64Mb	1.14V-1.26V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4) 80MHz(DTR)	WLCSP (4-4

SPI NOR Flash 车规产品选型

Part No.	Density	Voltage	Oragnization	I/O Bus	Frequency (MHz)	Packages
GD25Q20E	2Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	USON8 3x2mm
GD25Q40E	4Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	USON8 3x2mm SOP8 150mil
GD25Q80E	8Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	USON8 3x2mm SOP8 150mil SOP8 208mil
GD25B16E	16Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	USON8 3x2mm USON8 3x4mm SOP8 150mil SOP8 208mil
GD25B32E	32Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	USON8 3x2mm USON8 3x4mm SOP8 150mil SOP8 208mil
GD25F64F	64Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	USON8 4x4mm SOP8 208mil SOP16 300mil WSON8 6x5mm TFBGA24 8x6mm (5x5 ball array)
GD25F128F	128Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP8 208mil SOP16 300mil WSON8 6x5mm WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD25F256F	256Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP16 300mil WSON8 6x5mm WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD25F512MF	512Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP16 300mil WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD25T512ME	512Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Quad	166MHz(x1, x4) 200MHz(DTR)	TFBGA24 8x6mm (5x5 ball array)
GD25X512ME	512Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Octal	166MHz(x1, x8) 200MHz(DTR)	SOP16 300mil TFBGA24 8x6mm (5x5 ball array)
GD55F01GF	1Gb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz	

SPI NOR Flash 车规产品选型

Part No.	Density	Voltage	Oragnization	I/O Bus	Frequency (MHz)	Packages
GD25LX256E	256Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Octal	166MHz(x1, x8) 200MHz(DTR)	SOP16 300mil TFBGA24 8x6mm (5x5 ball array)
GD25LF512MF	512Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP16 300mil WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD25LT512ME	512Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Quad	166MHz(x1, x4) 200MHz(DTR)	TFBGA24 8x6mm (5x5 ball array)
GD25LX512ME	512Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Octal	166MHz(x1, x8) 200MHz(DTR)	SOP16 300mil TFBGA24 8x6mm (5x5 ball array)
GD55LF01GF	1Gb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP16 300mil WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD55LT01GE	1Gb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Quad	166MHz(x1, x4) 200MHz(DTR)	TFBGA24 8x6mm (5x5 ball array)
GD55LX01GE	1Gb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Octal	166MHz(x1, x8) 200MHz(DTR)	SOP16 300mil TFBGA24 8x6mm (5x5 ball array)
GD55LF02GF	2Gb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP16 300mil TFBGA24 8x6mm (5x5 ball array)
GD55LT02GE	2Gb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Quad	166MHz(x1, x4) 200MHz(DTR)	TFBGA24 8x6mm (5x5 ball array)
GD55LX02GE	2Gb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Octal	166MHz(x1, x8) 200MHz(DTR)	TFBGA24 8x6mm (5x5 ball array)
GD25WQ40E	4Mb	1.65V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	USON8 3x2mm
GD25WQ80E	8Mb	1.65V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	USON8 3x2mm
GD25WQ16E	16Mb	1.65V-3.6V	4KB / 3			

SPI NAND Flash 工规产品选型

Part No.	Density	Voltage	Frequency	I/O Bus	Page Size	Package
GD5F05M7UE	512Mb	2.7V-3.6V	133MHz	x1/x2/x4	2KB	WSON8 8x6mm/WSON8 6x5mm/SOP8 208mil/ USON8 3x3mm
GD5F1GQ5UE	1Gb	2.7V-3.6V	133MHz	x1/x2/x4	2KB	WSON8 8x6mm
GD5F1GM7UE	1Gb	2.7V-3.6V	133MHz	x1/x2/x4	2KB	WSON8 8x6mm/WSON8 6x5mm/TFBGA24 8x6mm(5x5 ball array)/WLCSP(4-4 ball array) ⁽¹⁾
GD5F1GM9UE ⁽²⁾	1Gb	2.7V-3.6V	166MHz	x1/x2/x4	2KB	WSON8 8x6mm/WSON8 6x5mm/TFBGA24 8x6mm(5x5 ball array)
GD5F2GQ5UE	2Gb	2.7V-3.6V	104MHz	x1/x2/x4	2KB	WSON8 8x6mm
GD5F2GM7UE	2Gb	2.7V-3.6V	133MHz	x1/x2/x4	2KB	WSON8 8x6mm/WSON8 6x5mm/TFBGA24 8x6mm(5x5 ball array)/WLCSP(4-4 ball array) ⁽¹⁾
GD5F4GQ6UE	4Gb	2.7V-3.6V	104MHz	x1/x2/x4	2KB	WSON8 8x6mm
GD5F4GM7UE	4Gb	2.7V-3.6V	133MHz	x1/x2/x4	4KB	WSON8 8x6mm/WSON8 6x5mm/TFBGA24 8x6mm(5x5 ball array)
GD5F8GM8UE	8Gb	2.7V-3.6V	133MHz	x1/x2/x4	4KB	WSON8 8x6mm/TFBGA24 8x6mm(5x5 ball array)
GD5F05M7RE	512Mb	1.7V-2.0V	104MHz	x1/x2/x4	2KB	WSON8 8x6mm/WSON8 6x5mm/SOP8 208mil/ USON8 3x3mm
GD5F1GQ5RE	1Gb	1.7V-2.0V				

Parallel NAND Flash工规产品选型

Part No.	Density	Voltage	Sequential Access Time	I/O Bus	Page Size	ECC Requirement	Package
GD9FU1G8F2D	1Gb	2.7V-3.6V	12ns	x8	2KB+128B	8bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9FU2G8F3A ⁽¹⁾	2Gb	2.7V-3.6V	20ns	x8	2KB+64B	4bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9FU2G8F2A	2Gb	2.7V-3.6V	20ns	x8	2KB+128B	4bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9FU4G8F3A	4Gb	2.7V-3.6V	20ns	x8	2KB+64B	4bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9FU4G8F4D	4Gb	2.7V-3.6V	12ns	x8	4KB+256B	8bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9FU8G8E3A	8Gb	2.7V-3.6V	20ns	x8	2KB+64B	4bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9FU8G8E4D	8Gb	2.7V-3.6V	12ns	x8	4KB+256B	8bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9AU2G8F3A ⁽¹⁾	2Gb	2.7V-3.6V	20ns	x8	2KB+64B	Internal 4bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9AU4G8F3A ⁽¹⁾	4Gb	2.7V-3.6V	20ns	x8	2KB+64B	Internal 4bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9AU8G8E3A ⁽¹⁾	8Gb	2.7V-3.6V	20ns	x8	2KB+64B	Internal 4bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9FS1G8F2D	1Gb	1.7V-1.95V	20ns	x8	2KB+128B	8bit/512B	BGA63 9x11mm
GD9FS2G8F3A ⁽¹⁾	2Gb	1.7V-1.95V	25ns	x8	2KB+64B	4bit/512B	BGA63 9x11mm
GD9FS2G8F2A	2Gb	1.7V-1.95V	25ns	x8	2KB+128B	4bit/512B	BGA63 9x11mm
GD9FS4G8F3A	4Gb	1.7V-1.95V	25ns				

Flash产品封装形式

T



SOP8 150mil

长度	4.90mm
宽度	6.00mm
厚度 (最大)	1.75mm
间距	1.27mm

S



SOP8 208mil

长度	5.23mm
宽度	7.90mm
厚度 (最大)	2.16mm
间距	1.27mm

F



SOP16 300mil

长度	10.30mm
宽度	10.35mm
厚度 (最大)	2.65mm
间距	1.27mm

N



USON8 3x4mm

长度	3.00mm
宽度	4.00mm
厚度 (最大)	0.60mm
间距	0.80mm

Q



USON8 4x4mm

长度	4.00mm
宽度	4.00mm
厚度 (最大)	0.50mm
间距	0.80mm

W



WSO8 6x5mm

长度	6.00mm
宽度	5.00mm
厚度 (最大)	0.80mm
间距	1.27mm

高性能MCU

GD32H7系列ARM® Cortex®-M7内核32位超高性能MCU选型

Series	Part No.	Max Speed (MHz)	Memory (Bytes)		I/O	Timer								Connectivity														EXMC	Analog Interface				Package
			Flash	SRAM		GPTM (16bit)	GPTM (32bit)	Advanced TM (16bit)	Basic TM (32bit)	Basic TM (64bit)	SysTick (24bit)	WDG	RTC	U(S) ART	I²C	SPI	OSPI	CAN	I²S	USB OTG	Ethernet	EtherCAT Slave Controller (ESC)	SDIO	MIPI-DSI	LCD-TFT	SAI	14bit ADC Units (CHs)	12bit ADC Units (CHs)	12bit DAC Units	COMP			
GD32H78D	GD32H78DIWK7	750	9728K	1152K	120	4	12	2	2	2	1	2	1	8	4	6	2	3	4	2	2	0	2	1	1	4	1	2(22)	1(17)	2	2	BGA176	
	GD32H78DIPK7	750	5632K	1152K	120	4	12	2	2																								

高性能MCU

GD32F527系列ARM® Cortex®-M33内核32位高性能MCU选型

Series	Part No.	Max Speed (MHz)	Memory (Bytes)			I/O	Timer						Connectivity													EXMC/SDRAM	Analog Interface		Package
			Flash	Code-Flash	SRAM		GPTM (16bit)	Adv TM (16bit)	GPTM (32bit)	Basic TM (16bit)	WDG	RTC	USART/UART	I²C	SPI	CAN	USB OTG	I²S	SDIO	SAI	LCD-TFT	Camera	Ethernet	IPA	12bit ADC Units (CHs)		12bit DAC Units		
GD32F527	GD32F527RMT7	200	4096K	1536K	1088K	51	8	2	2	2	2	1	4+2	3	3	2xFD	FS+HS	2	1	0	0	1	1	0		3(16)	2	LQFP64	
	GD32F527RST7	200	7680K	2048K	576K	51	8	2	2	2	2	1	4+2	3	3	2xFD	FS+HS	2	1	0	0	1	1	0		3(1			

高性能MCU

GD32F4系列ARM® Cortex®-M4内核32位高性能MCU选型

Series	Part No.	Max Speed (MHz)	Memory (Bytes)		I/O	Timer						Connectivity												EXMC/SDRAM	Analog Interface		Package
			Flash	SRAM		GPTM (16bit)	Adv TM (16bit)	GPTM (32bit)	Basic TM (16bit)	WDG	RTC	USART +UART	I²C	SPI	CAN 2.0B	USB OTG	I²S	SDIO	LCD- SDIO TFT	Camera	ETH MAC	IPA	12bit ADC Units (CHs)		12bit DAC Units		
GD32F425	GD32F425RET6	200	512K	256K	up to 51	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1					3(16)	2	LQFP64
	GD32F425RGT6	200	1024K	256K	up to 51	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1					3(16)	2	LQFP64
	GD32F425RKT6	200																									

高性能MCU

GD32F4系列ARM® Cortex®-M4内核32位高性能MCU选型

Series	Part No.	Max Speed (MHz)	Memory (Bytes)		I/O	Timer						Connectivity												EXMC/SDRAM	Analog Interface		Package
			Flash	SRAM		GPTM (16bit)	Adv TM (16bit)	GPTM (32bit)	Basic TM (16bit)	WDG	RTC	USART +UART	I²C	SPI	CAN 2.0B	USB OTG	I²S	SDIO	LCD- SDIO TFT	Camera	ETH MAC	IPA	12bit ADC Units (CHs)		12bit DAC Units		
GD32F403	GD32F403RCT6	168	256K	64K	up to 51	8	2		2	2	1	3+2	2	3	2	OTG	2	1					0/0	3(16)	2	LQFP64	
	GD32F403RET6	168	512K	96K	up to 51	8	2		2	2	1	3+2	2	3	2	OTG	2	1					0/0	3(16)	2	LQFP64	
	GD32F403RGT6	168	1024K																								

高性能MCU

GD32F4系列ARM® Cortex®-M4内核32位高性能MCU选型

Series	Part No.	Max Speed (MHz)	Memory (Bytes)		I/O	Timer						Connectivity												EXMC/SDRAM	Analog Interface		Package
			Flash	SRAM		GPTM (16bit)	Adv TM (16bit)	GPTM (32bit)	Basic TM (16bit)	WDG	RTC	USART +UART	I²C	SPI	CAN 2.0B	USB OTG	I²S	SDIO	LCD- SDIO TFT	Camera	ETH MAC	IPA	12bit ADC Units (CHs)		12bit DAC Units		
GD32F407	GD32F407RET6	168	512K	192K	up to 51	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1			3(16)	2	LQFP64	
	GD32F407RGT6	168	1024K	192K	up to 51	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1			3(16)	2	LQFP64	
	GD32F407RKT6	168	3072K	1																							

主流型MCU

GD32F10x系列ARM® Cortex®-M3内核32位主流型MCU选型

Series	Part No.	Max Speed (MHz)	Memory (Bytes)		I/O	Timer						Connectivity								EXMC	Analog Interface		Package
			Flash	SRAM		GPTM (16bit)	Advanced TM (16bit)	Basic TM (16bit)	SysTick (24bit)	WDG	RTC	USART +UART	I²C	SPI	CAN 2.0B	USB 2.0 FS	I²S	SDIO	Ether-net		12bit ADC Units (CHs)	12bit DAC Units	
GD32F101	GD32F101T4U6	56	16K	4K	up to 26	2			1	2	1	2	1	1							1(10)		QFN36
	GD32F101T6U6	56	32K	6K	up to 26	2			1	2	1	2	1	1							1(10)		QFN36
	GD32F101T8U6	56	64K	10K	up to 26	3			1	2	1	2	1	1							1(10)		QFN36
	GD32F101TBU																						

入门级MCU

GD32F1x0系列ARM® Cortex®-M3内核32位入门级MCU选型

Series	Part No.	Max Speed (MHz)	Memory (Bytes)		I/O	Timer							Connectivity							Analog Interface		Package
			Flash	SRAM		GPTM (32bit)	GPTM (16bit)	Advanced TM (16bit)	Basic TM (16bit)	SysTick (24bit)	WDG	RTC	USART	I²C	SPI	USB 2.0 FS	I²S	CEC	12bit ADC Units (CHs)	12bit DAC Units		
GD32F130	GD32F130F4P6TR	48	16K	4K	up to 15	1	4		1	1	2	1	1	1	1				1(9)		TSSOP20	
	GD32F130F6P6TR	48	32K	4K	up to 15	1	4		1	1	2	1	2	1	1				1(9)		TSSOP20	
	GD32F130F8P6TR	48	64K	8K	up to 15	1	4		1	1	2	1	2	2	2				1(9)		TSSOP20	
	GD32F130G4U6TR	48	16K	4K	up to 23	1	4															

低功耗MCU

GD32L23x系列ARM® Cortex®-M23内核32位低功耗MCU选型

Series	Part No.	Max Speed (MHz)	Memory (Bytes)		I/O	Timer								Connectivity										Analog Interface		Package
			Flash	SRAM		LPTM (32bit)	LPTM (16bit)	GPTM (16bit)	Advanced TM(16bit)	Basic TM (16bit)	SysTick (24bit)	WDG	RTC	USART +UART	LP UART	I²C	SPI	USB 2.0	CAN2.0B	I²S	Comp	Segment LCD	12bit ADC Units (CHs)	12bit DAC Units		
GD32L235	GD32L235E8Y6TR	64	64K	12K	up to 23		2	5	1	2	1	2	1	2+1	2	3	2		1	1	2		1(10)	1	WLCSP25	
	GD32L235EBY6TR	64	128K	24K	up to 23		2	6	1	2	1	2	1	2+2	2	3	2		1	1	2		1(10)	1	WLCSP25	
	GD32L235K8Q6	64	64K	12K	up to 29		2	5	1																	

无线MCU

GD32VW553系列RISC-V内核32位无线MCU选型

Series	Part No.	Max Speed (MHz)	Memory (Bytes)		I/O	Timer							Connectivity													Analog Interface		Package
			Flash	SRAM		GPTM (32bit)	GPTM (16bit)	Advanced TM (16bit)	Basic TM (16bit)	SysTick (64bit)	WDG	RTC	U(S)ART	I²C	SPI	USB 2.0 FS	I²S	QSPI	CAU	HAU	PKCAU	TRNG	IEEE 802.11	Bluetooth	12bit ADC Units (CHs)	12bit DAC Units		
GD32VW553	GD32VW553KIQ7	160	2048K	320K	up to 21	2	2	1	1	1	2	1	1+2	2	1			1	•	•	•	•	(b/g/n/ax) HE20	BLE 5.2	1(9)		QFN32	
	GD32VW553KMQ7	160	4096K	320K	up to 21	2	2	1	1	1	2	1	1+2	2	1			1	•	•	•	•	(b/g/n/ax) HE20	BLE 5.2	1(9)		QFN32	
	GD																											

