

兆易创新选型手册

2024 年版



关于兆易创新

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, 公司成立于2005年4月, 总部设于中国北京, 在中国上海、深圳、合肥、西安、成都、苏州、香港和新竹, 美国、韩国、日本、英国、德国、新加坡等多个国家和地区均设有分支机构和办事处, 营销网络遍布全球, 为客户提供优质便捷的本地化支持服务。

公司的核心产品线为存储器 (Flash、利基型DRAM)、32位通用型MCU、智能人机交互传感器、电源产品及整体解决方案, 旗下产品以“高性能、低功耗”著称, 为工业、汽车、计算、消费类电子、物联网、移动应用以及网络和电信行业的客户提供全方位服务。

- 在NOR Flash领域, 市场占有率全球第三、中国第一, 累计出货量超212亿颗。
- 中国品牌排名第一的Arm®通用型MCU供应商, 提供超过45个系列、550余款型号选择, 累计出货量超15亿颗。

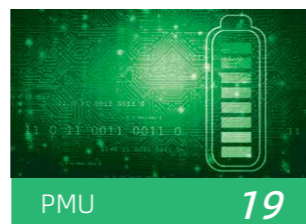
公司在质量管理方面有严格的标准与要求, 已通过ISO26262:2018汽车功能安全最高等级ASIL D体系认证, 并已获得ISO 9001、ISO 14001、ISO 45001等体系认证和邓白氏认证, 同时积极推进产业整合, 拓展战略布局, 并与全球多家领先晶圆厂、封装测试厂达成战略合作伙伴关系, 通过加强产业上下游合作、优化供应链管理, 共同推进半导体领域的技术创新。

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arm CORTEX

arm Community

arm University Program

RISC-V

中国开放指令生态 (RISC-V) 联盟
China RISC-V Alliance

中国RISC-V产业联盟
China RISC-V Industry Consortium

GD32 MCU 型号家族

类型	Arm® Cortex®-M 32-bit MCUs (Flash KB/RAM KB)						RISC-V MCUs	
内核	Cortex®-M23	Cortex®-M3	Cortex®-M4		Cortex®-M33		Cortex®-M7	RISC-V
高性能		GD32F207 120MHz, 3M/256K	GD32A490 240MHz, 3M/768K	GD32F470 240MHz, 3M/768K	GD32W515 180MHz, 2048K/448K	GD32E508 180MHz, 512K/128K	GD32H759 600MHz, 3840K/1024K	GD32VW553 160MHz, 4M/320K
		GD32F205 120MHz, 3M/256K	GD32F427 200MHz, 3M/256K	GD32F425 200MHz, 3M/256K	GD32E507 180MHz, 512K/128K	GD32E505 180MHz, 512K/128K	GD32H757 600MHz, 3840K/1024K	
			GD32F450 200MHz, 3M/512K	GD32F407 168MHz, 3M/192K	GD32E503 180MHz, 512K/128K		GD32H737 600MHz, 3840K/1024K	
			GD32F405 168MHz, 3M/192K	GD32F403 168MHz, 3M/128K				
主流型	GD32L233 64MHz, 256K/32K	GD32F107 108MHz, 1M/96K	GD32F307 120MHz, 1M/96K	GD32F305 120MHz, 1M/96K	GD32A513 100MHz, 384K/48K	GD32A503 100MHz, 384K/48K		GD32VF103 120MHz, 128K/32K
		GD32F105 108MHz, 1M/96K	GD32F303 120MHz, 3M/96K	GD32C113 120MHz, 128K/32K	GD32E502 100MHz, 384K/48K	GD32E501 100MHz, 512K/32K		
		GD32F103 108MHz, 3M/96K	GD32E113 120MHz, 128K/32K	GD32C103 120MHz, 128K/32K				
		GD32F101 56MHz, 3M/80K	GD32E103 120MHz, 128K/32K					
入门级	GD32E232 72MHz, 64K/8K	GD32F150 72MHz, 64K/8K	GD32F350 108MHz, 128K/16K	GD32F330 84MHz, 128K/16K				
	GD32E230 72MHz, 64K/8K	GD32F130 48MHz, 64K/8K	GD32F310 72MHz, 64K/8K					
专用型			GD32FFPR 168MHz, 1M/128K		GD32EPRT 168MHz, 384K/96K+4M			

MCU 型号封装形式

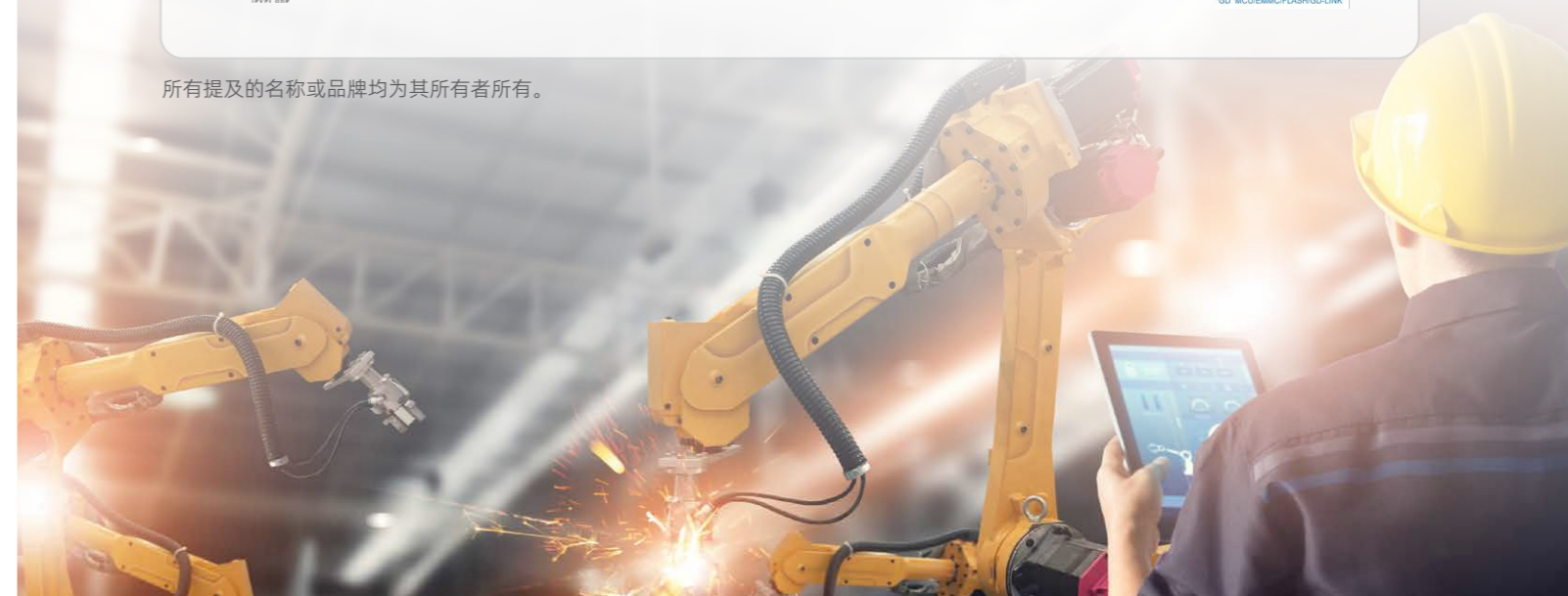
LQFP176 (24*24mm)	LQFP144 (20*20mm)	LQFP100 (14*14mm)	LQFP64 (10*10mm)	LQFP48 (7*7mm)	LQFP32 (7*7mm)	BGA176 (10*10mm)
						
BGA100 (7*7mm)	QFN64 (7*7mm)	QFN56 (7*7mm)	QFN48 (7*7mm)	QFN36 (6*6mm)	QFN32 (5*5mm)	QFN32 (4*4mm)
						
	QFN28 (4*4mm)	QFN24 (3*3mm)	TSSOP20 (6.5*4.4mm)	LGA20 (3*3mm)		
						

GD32 生态系统



arm KEIL	SEGGER	iar	Embeetle IDE	CrossWorks	PE MICRO
ARM mbed	aws	Microsoft Azure	freeRTOS	RT-Thread	TencentOS Tiny
0x5 HEX-Flex	sensory	AlgoCraft	ELNEC	SMH Technologies	创芯工坊
ASHLING	LAUTERBACH DEVELOPMENT TOOLS	LVGL	Embedded Wizard GUI Solutions by TARA Systems	PX5 [RTOS]	DAB-EMBEDDED
ProMik Trusted Solutions	XELTEK SuperBOT Automated Equipment Company	Wilson	ZLG 致远电子	CERTIFIED USB	WiFi CERTIFIED
psacertified level one	RISC-V	芯来科技 NUCLEI	GNU MCU	GCC	TMALL 天猫 GD32官方旗舰店 GD MCUEMMCFLASHGD-LINK

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GD32VW553 系列 RISC-V 内核 32 位双模无线 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	I ² C	SPI	USB 2.0 FS	I ² S	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											(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											(b/g/n/ax) HE20	BLE 5.2	1(9)		QFN32
	GD32VW553HIQ7	160	2048K	320K	up to 28	2	2	1	1	1	2	1	1+2	2	1											(b/g/n/ax) HE20	BLE 5.2	1(9)		QFN40
	GD32VW553HMQ7	160	4096K	320K	up to 28	2	2	1	1	1	2	1	1+2	2	1											(b/g/n/ax) HE20	BLE 5.2	1(9)		QFN40
	GD32VW553KIQ6	160	2048K	320K	up to 21	2	2	1	1	1	2	1	1+2	2	1											(b/g/n/ax) HE20	BLE 5.2	1(9)		QFN32
	GD32VW553KMQ6	160	4096K	320K	up to 21	2	2	1	1	1	2	1	1+2	2	1											(b/g/n/ax) HE20	BLE 5.2	1(9)		QFN32
	GD32VW553HIQ6	160	2048K	320K	up to 28	2	2	1	1	1	2	1	1+2	2	1											(b/g/n/ax) HE20	BLE 5.2	1(9)		QFN40
	GD32VW553HMQ6	160	4096K	320K	up to 28	2	2	1	1	1	2	1	1+2	2	1											(b/g/n/ax) HE20	BLE 5.2	1(9)		QFN40

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														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	I ² C	SPI	OSPI	CAN20 B	I ² S	USB HS OTG	COMP	SDIO	LCD-TFT	SAI	Ethernet	EXMC	14bit ADC Units (CHs)	12bit ADC Units (CHs)	12bit DAC Units				
GD32H737	GD32H737VGT6	600	1024K	1024K	up to 82	10	4	2	2	2	1	2	1	8	4	5	1	2	4	1	2	2					2	1	•	1(14), 1(12)	1(4)	1	LQFP100
	GD32H737VIT6	600	2048K	1024K	up to 82	10	4	2	2	2	1	2	1	8	4	5	1	3	4	1	2	2	1	2	1	•	1(14), 1(12)	1(4)	1	LQFP100			
	GD32H737VMT6	600	3840K	1024K	up to 82	10	4	2	2	2	1	2	1	8	4	5	1	3	4	1	2	2	1	2	1	•	1(14), 1(12)	1(4)	1	LQFP100			
	GD32H737ZGT6	600	1024K	1024K	up to 113	12	4	2	2	2	1	2	1	8	4	6	2	2	4	1	2	2		3	1	•	1(16), 1(14)	1(12)	1	LQFP144			
	GD32H737ZIT6	600	2048K	1024K	up to 113	12	4	2	2	2	1	2	1	8	4	6	2	3	4	1	2	2	1	3	1	•	1(16), 1(14)	1(12)	1	LQFP144			
	GD32H737ZMT6	600	3840K	1024K	up to 113	12	4	2	2	2	1	2	1	8	4	6	2	3	4	1	2	2	1	3	1	•	1(16), 1(14)	1(12)	1	LQFP144			
	GD32H737IGT6	600	1024K	1024K	up to 121	12	4	2	2	2	1	2	1	8	4	6	2	2	4	2	2	2		3	1	•	1(16), 1(14)	1(12)	1	LQFP176			
	GD32H737IIT6	600	2048K	1024K	up to 121	12	4	2	2	2	1	2	1	8	4	6	2	3	4	2	2	2	1	3	1	•	1(16), 1(14)	1(12)	1	LQFP176			
	GD32H737IMT6	600	3840K	1024K	up to 121	12	4	2	2	2	1	2	1	8	4	6	2	3	4	2	2	2	1	3	1	•	1(16), 1(14)	1(12)	1	LQFP176			
	GD32H737IGK6	600	1024K	1024K	up to 134	12	4	2	2	2	1	2	1	8	4	6	2	2	4	2	2	2		3	2	•	1(20), 1(18)	1(17)	1	BGA176			
	GD32H737IHK6	600	2048K	1024K	up to 134	12	4	2	2	2	1	2	1	8	4	6	2	3	4	2	2	2	1	3	2	•	1(20), 1(18)	1(17)	1	BGA176			
GD32H737IMK6	600	3840K	1024K	up to 134	12	4	2	2	2	1	2	1	8	4	6	2	3	4	2	2	2	1	3	2	•	1(20), 1(18)	1(17)	1	BGA176				
GD32H757	GD32H757VGT6	600	1024K	1024K	up to 82	10	4	2	2	2	1	2	1	8	4	5	1	3xFD	4	1	2	2	1	2	1	•	1(14), 1(12)	1(4)	1	LQFP100			
	GD32H757VIT6	600	2048K	1024K	up to 82	10	4	2	2	2	1	2	1	8	4	5	1	3xFD	4	1	2	2	1	2	1	•	1(14), 1(12)	1(4)	1	LQFP100			
	GD32H757VMT6	600	3840K	1024K	up to 82	10	4	2	2	2	1	2	1	8	4	5	1	3xFD	4	1	2	2	1	2	1	•	1(14), 1(12)	1(4)	1	LQFP100			
	GD32H757VGJ6	600	1024K	1024K	up to 82	10	4	2	2	2	1	2	1	8	4	5	1	3xFD	4	1	2	2	1	2	1	•	1(14), 1(12)	1(4)	1	BGA100			
	GD32H757VIJ6	600	2048K	1024K	up to 82	10	4	2	2	2	1	2	1	8	4	5	1	3xFD	4	1	2	2	1	2	1	•	1(14), 1(12)	1(4)	1	BGA100			
	GD32H757VMJ6	600	3840K	1024K	up to 82	10	4	2	2	2	1	2	1	8	4	5	1	3xFD	4	1	2	2	1	2	1	•	1(14), 1(12)	1(4)	1	BGA100			
	GD32H757ZGT6	600	1024K	1024K	up to 113	12	4	2	2	2	1	2	1	8	4	6	2	3xFD	4	1	2	2	1	3	1	•	1(16), 1(14)	1(12)	1	LQFP144			
	GD32H757ZIT6	600	2048K	1024K	up to 113	12	4	2	2	2	1	2	1	8	4	6	2	3xFD	4	1	2	2	1	3	1	•	1(16), 1(14)	1(12)	1	LQFP144			
	GD32H757ZMT6	600	3840K	1024K	up to 113	12	4	2	2	2	1	2	1	8	4	6	2	3xFD	4	1	2	2	1	3	1	•	1(16), 1(14)	1(12)	1	LQFP144			
	GD32H759IGT6	600	1024K	1024K	up to 121	12	4	2	2	2	1	2	1	8	4	6	2	3xFD	4	2	2	2	1	3	1	•	1(16), 1(14)	1(12)	1	LQFP176			
GD32H759	GD32H759IIT6	600	2048K	1024K	up to 121	12	4	2	2	2	1	2	1	8	4	6	2	3xFD	4	2	2	2	1	3	1	•	1(16), 1(14)	1(12)	1	LQFP176			
	GD32H759IMT6	600	3840K	1024K	up to 121	12	4	2	2	2	1	2	1	8	4	6	2	3xFD	4	2	2	2	1	3	1	•	1(16), 1(14)	1(12)	1	LQFP176			
	GD32H759IGK6	600	1024K	1024K	up to 134	12	4	2	2	2	1	2	1	8	4	6	2	3xFD	4	2	2	2	1	3	2	•	1(20), 1(18)	1(17)	1	BGA176			
	GD32H759IHK6	600	2048K	1024K	up to 134	12	4	2	2	2	1	2	1	8	4	6	2	3xFD	4	2	2	2	1	3	2	•	1(20), 1(18)	1(17)	1	BGA176			
	GD32H759IMK6	600	3840K	1024K	up to 134	12	4	2	2	2	1	2	1	8	4	6	2	3xFD	4	2	2	2	1	3	2	•	1(20), 1(18)	1(17)	1	BGA176			

GD32A490 系列

ARM® Cortex®-M4 内核 32 位车规级 MCU 选型



Series	Part No.	Max Speed (MHz)	Memory (Bytes)			I/O	Timer						Connectivity										Analog Interface		Package		
			Flash	SRAM			GPTM (16bit)	Adv TM (16bit)	GPTM (32bit)	Basic TM (16bit)	WDG	RTC	USART+UART	I ² C	SPI	CAN 2.0 B	USB OTG	I ² S	SDIO	LCD-SDIO TFT	Camera	ETH MAC	IPA	EXMC/SDRAM		12bit ADC Units (CHs)	12bit DAC Units
GD32A490	GD32A490ZIT7	240	2048K	768K		up to 114	8	2	2	2	2	1	4+4	3	6	2	FS+HS	2	1	1	1	1	1	1/1	3(24)	2	LQFP144
	GD32A490ZKT7	240	3072K	256K		up to 114	8	2	2	2	2	1	4+4	3	6	2	FS+HS	2	1	1	1	1	1	1/1	3(24)	2	LQFP144
	GD32A490I1H7	240	2048K	768K		up to 140	8	2	2	2	2	1	4+4	3	6	2	FS+HS	2	1	1	1	1	1	1/1	3(24)	2	BGA176
	GD32A490IKH7	240	3072K	256K		up to 140	8	2	2	2	2	1	4+4	3	6	2	FS+HS	2	1	1	1	1	1	1/1	3(24)	2	BGA176

GD32A5 系列

ARM® Cortex®-M33 内核 32 位车规级 MCU 选型



Series	Part No.	Max Speed (MHz)	Memory (Bytes)			I/O	Timer						Connectivity							Analog Interface		Package				
			Flash	SRAM	Data-Flash/EEPROM		GPTM (16bit)	Advanced TM (16bit)	Bsc TM (16bit)	SysTick (24bit)	WDG	RTC	USART /LIN	I ² C	SPI	CAN 2.0 B	I ² S	COMP	MFCOM	12bit ADC Units (CHs)	12bit DAC Units					
GD32A503	GD32A503KBU3	100	128K	24K	32K/2K	up to 27	1	3	2	1	2	1	1	2	1	1xFD	0	1	1	1	1	1	1	2(12)	1	QFN32
	GD32A503KCU3	100	256K	32K	64K/4K	up to 27	1	4	2	1	2	1	1	2	1	1xFD	0	1	1	1	1	1	1	2(12)	1	QFN32
	GD32A503CBT3	100	128K	24K	32K/2K	up to 42	1	3	2	1	2	1	2	2	2	2xFD	1	1	1	1	1	1	1	2(20)	1	LQFP48
	GD32A503CCT3	100	256K	32K	64K/4K	up to 42	1	4	2	1	2	1	2	2	2	2xFD	1	1	1	1	1	1	1	2(20)	1	LQFP48
	GD32A503RBT3	100	128K	24K	32K/2K	up to 57	1	3	2	1	2	1	3	2	2	2xFD	1	1	1	1	1	1	1	2(27)	1	LQFP64
	GD32A503RCT3	100	256K	32K	64K/4K	up to 57	1	4	2	1	2	1	3	2	2	2xFD	1	1	1	1	1	1	1	2(27)	1	LQFP64
	GD32A503RDT3	100	384K	48K	64K/4K	up to 57	1	4	2	1	2	1	3	2	2	2xFD	1	1	1	1	1	1	1	2(27)	1	LQFP64
	GD32A503VBT3	100	128K	24K	32K/2K	up to 88	1	4	2	1	2	1	3	2	2	2xFD	1	1	1	1	1	1	1	2(32)	1	LQFP100
	GD32A503VCT3	100	256K	32K	64K/4K	up to 88	1	4	2	1	2	1	3	2	2	2xFD	1	1	1	1	1	1	1	2(32)	1	LQFP100
	GD32A503VDT3	100	384K	48K	64K/4K	up to 88	1	4	2	1	2	1	3	2	2	2xFD	1	1	1	1	1	1	1	2(32)	1	LQFP100
GD32A513	GD32A513KBU3	100	128K	24K	32K/2K	up to 27	1	3	2	1	2	1	1	2	1	1xFD	0	1	1	1	1	1	1	2(12)	1	QFN32
	GD32A513KCU3	100	256K	32K	64K/4K	up to 27	1	4	2	1	2	1	1	2	1	1xFD	0	1	1	1	1	1	1	2(12)	1	QFN32
	GD32A513CBT3	100	128K	24K	32K/2K	up to 42	1	3	2	1	2	1	2	2	2	2xFD	1	1	1	1	1	1	1	2(20)	1	LQFP48
	GD32A513CCT3	100	256K	32K	64K/4K	up to 42	1	4	2	1	2	1	2	2	2	2xFD	1	1	1	1	1	1	1	2(20)	1	LQFP48
	GD32A513RBT3	100	128K	24K	32K/2K	up to 57	1	3	2	1	2	1	3	2	2	2xFD	1	1	1	1	1	1	1	2(27)	1	LQFP64
	GD32A513RCT3	100	256K	32K	64K/4K	up to 57	1	4	2	1	2	1	3	2	2	2xFD	1	1	1	1	1	1	1	2(27)	1	LQFP64
	GD32A513RDT3	100	384K	48K	64K/4K	up to 57	1	4	2	1	2	1	3	2	2	2xFD	1	1	1	1	1	1	1	2(27)	1	LQFP64
	GD32A513VBT3	100	128K	24K	32K/2K	up to 88	1	4	2	1	2	1	3	2	2	2xFD	1	1	1	1	1	1	1	2(32)	1	LQFP100
	GD32A513VCT3	100	256K	32K	64K/4K	up to 88	1	4	2	1	2	1	3	2	2	2xFD	1	1	1	1	1	1	1	2(32)	1	LQFP100
	GD32A513VDT3	100	384K	48K	64K/4K	up to 88	1	4	2	1	2	1	3	2	2	2xFD	1	1	1	1	1	1	1	2(32)	1	LQFP100

GD32W5 系列 ARM® Cortex®-M33 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 (24bit)	WDG	RTC	USART	I ² C	SPI	USB 2.0FS	I ² S	SDIO	IEEE 802.11	QS PI	Digital Filters	Digital Camera	HW Security	12bit ADC Units (CHs)		Cap. Touch Key
GD32W515	GD32W515TGQ6	180	1024K	384K	up to 25	2	3	1	1	1	2	1	3	2	2	OTG	1	1	b/g/n	1			•	1(5)	7	QFN36
	GD32W515TIQ6	180	2048K	448K	up to 25	2	3	1	1	1	2	1	3	2	2	OTG	1	1	b/g/n	1			•	1(5)	7	QFN36
	GD32W515P0Q6	180	0K	448K	up to 43	2	4	1	1	1	2	1	3	2	2	OTG	1	1	b/g/n	1	•	•	•	1(9)	12	QFN56
	GD32W515PIQ6	180	2048K	448K	up to 43	2	4	1	1	1	2	1	3	2	2	OTG	1	1	b/g/n	1	•	•	•	1(9)	12	QFN56

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)	GPTM (16bit)	Advanced TM (16bit)	Basic TM (16bit)	SysTick (24bit)	WDG	RTC	USAR+UART	LP UART	I ² C	SPI	USB 2.0	I ² S	Comp	Segment LCD	12bit ADC Units (CHs)	12bit DAC Units				
GD32L233	GD32L233K8Q6	64	64K	16K	up to 29	1	3	0	2	1	2	1	2+1	1	2	2	FS	1	2					1(10)	1	QFN32
	GD32L233KBQ6	64	128K	24K	up to 29	1	3	0	2	1	2	1	2+1	1	2	2	FS	1	2					1(10)	1	QFN32
	GD32L233K8T6	64	64K	16K	up to 27	1	3	0	2	1	2	1	2+1	1	2	2	FS	1	2					1(10)	1	LQFP32
	GD32L233KBT6	64	128K	24K	up to 27	1	3	0	2	1	2	1	2+1	1	2	2	FS	1	2					1(10)	1	LQFP32
	GD32L233C8T6	64	64K	16K	up to 43	1	3	0	2	1	2	1	2+1	1	2	2	FS	1	2					1(10)	1	LQFP48
	GD32L233CBT6	64	128K	24K	up to 43	1	4	0	2	1	2	1	2+2	1	2	2	FS	1	2					1(10)	1	LQFP48
	GD32L233CCT6	64	256K	32K	up to 43	1	4	0	2	1	2	1	2+2	1	2	2	FS	1	2					1(10)	1	LQFP48
	GD32L233R8T6	64	64K	16K	up to 59	1	3	0	2	1	2	1	2+1	1	3	2	FS	1	2	8*28/4*32				1(16)	1	LQFP64
	GD32L233RBT6	64	128K	24K	up to 59	1	4	0	2	1	2	1	2+2	1	3	2	FS	1	2	8*28/4*32				1(16)	1	LQFP64
	GD32L233RCT6	64	256K	32K	up to 59	1	4	0	2	1	2	1	2+2	1	3	2	FS	1	2	8*28/4*32				1(16)	1	LQFP64

GD32E502 系列

ARM® Cortex®-M33 内核 32 位工业 5V 通用 MCU 选型



Series	Part No.	Max Speed (MHz)	Memory (Bytes)			I/O	Timer						Connectivity						Analog Interface		Package	
			Flash	SRAM	Data-Flash/EEPROM		GPTM (16bit)	Advanced TM (16bit)	Bsc TM (16bit)	SysTick (24bit)	WDG	RTC	USART /LIN	I ² C	SPI	CAN 2.0 B	I ² S	COMP	MFCOM	12bit ADC Units (CHs)		12bit DAC Units
GD32E502	GD32E502KBU3	100	128K	24K	32K/2K	up to 27	1	3	2	1	2	1	1	2	1	1xFD	0	1	1	2(12)	1	QFN32
	GD32E502KCU3	100	256K	32K	64K/4K	up to 27	1	4	2	1	2	1	1	2	1	1xFD	0	1	1	2(12)	1	QFN32
	GD32E502CBT3	100	128K	24K	32K/2K	up to 42	1	3	2	1	2	1	2	2	2	2xFD	1	1	1	2(20)	1	LQFP48
	GD32E502CCT3	100	256K	32K	64K/4K	up to 42	1	4	2	1	2	1	2	2	2	2xFD	1	1	1	2(20)	1	LQFP48
	GD32E502RBT3	100	128K	24K	32K/2K	up to 57	1	3	2	1	2	1	3	2	2	2xFD	1	1	1	2(27)	1	LQFP64
	GD32E502RCT3	100	256K	32K	64K/4K	up to 57	1	4	2	1	2	1	3	2	2	2xFD	1	1	1	2(27)	1	LQFP64
	GD32E502RDT3	100	384K	48K	64K/4K	up to 57	1	4	2	1	2	1	3	2	2	2xFD	1	1	1	2(27)	1	LQFP64
	GD32E502VBT3	100	128K	24K	32K/2K	up to 88	1	4	2	1	2	1	3	2	2	2xFD	1	1	1	2(32)	1	LQFP100
	GD32E502VCT3	100	256K	32K	64K/4K	up to 88	1	4	2	1	2	1	3	2	2	2xFD	1	1	1	2(32)	1	LQFP100
	GD32E502VDT3	100	384K	48K	64K/4K	up to 88	1	4	2	1	2	1	3	2	2	2xFD	1	1	1	2(32)	1	LQFP100
	GD32E502KBU7	100	128K	24K	32K/2K	up to 27	1	3	2	1	2	1	1	2	1	1xFD	0	1	1	2(12)	1	QFN32
	GD32E502KCU7	100	256K	32K	64K/4K	up to 27	1	4	2	1	2	1	1	2	1	1xFD	0	1	1	2(12)	1	QFN32
	GD32E502CBT7	100	128K	24K	32K/2K	up to 42	1	3	2	1	2	1	2	2	2	2xFD	1	1	1	2(20)	1	LQFP48
	GD32E502CCT7	100	256K	32K	64K/4K	up to 42	1	4	2	1	2	1	2	2	2	2xFD	1	1	1	2(20)	1	LQFP48
	GD32E502RBT7	100	128K	24K	32K/2K	up to 57	1	3	2	1	2	1	3	2	2	2xFD	1	1	1	2(27)	1	LQFP64
	GD32E502RCT7	100	256K	32K	64K/4K	up to 57	1	4	2	1	2	1	3	2	2	2xFD	1	1	1	2(27)	1	LQFP64
	GD32E502RDT7	100	384K	48K	64K/4K	up to 57	1	4	2	1	2	1	3	2	2	2xFD	1	1	1	2(27)	1	LQFP64
	GD32E502VBT7	100	128K	24K	32K/2K	up to 88	1	4	2	1	2	1	3	2	2	2xFD	1	1	1	2(32)	1	LQFP100
	GD32E502VCT7	100	256K	32K	64K/4K	up to 88	1	4	2	1	2	1	3	2	2	2xFD	1	1	1	2(32)	1	LQFP100
	GD32E502VDT7	100	384K	48K	64K/4K	up to 88	1	4	2	1	2	1	3	2	2	2xFD	1	1	1	2(32)	1	LQFP100

GD32E5 系列

ARM® Cortex®-M33 内核 32 位通用 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)	Bsc TM (16bit)	SysTick (24bit)	WDG	RTC	USART +UART	I ² C	SPI	CAN 2.0 B	USB 2.0	I ² S	SD IO	Ethernet	TMU	SH RTM	COMP	EXMC		12bit ADC Units (CHs)	12bit DAC Units								
GD32E503	GD32E503CCT6	180	256K	96K	up to 37	1	3	1	2	1	2	1	3+0	3	3	2	FS	2														3(10)	2	LQFP48	
	GD32E503CET6	180	512K	128K	up to 37	1	9	1	2	1	2	1	3+0	3	3	2	FS	2														3(10)	2	LQFP48	
	GD32E503RCT6	180	256K	96K	up to 51	1	3	2	2	1	2	1	4+2	3	3	2	FS	2	1													3(16)	2	LQFP64	
	GD32E503RET6	180	512K	128K	up to 51	1	9	2	2	1	2	1	4+2	3	3	2	FS	2	1													3(16)	2	LQFP64	
	GD32E503VCT6	180	256K	96K	up to 80	1	3	2	2	1	2	1	4+2	3	3	2	FS	2	1													3(16)	2	LQFP100	
	GD32E503VET6	180	512K	128K	up to 80	1	9	2	2	1	2	1	4+2	3	3	2	FS	2	1													3(16)	2	LQFP100	
	GD32E503ZCT6	180	256K	96K	up to 112	1	3	2	2	1	2	1	4+2	3	3	2	FS	2	1													3(21)	2	LQFP144	
GD32E503ZET6	180	512K	128K	up to 112	1	9	2	2	1	2	1	4+2	3	3	2	FS	2	1													3(21)	2	LQFP144		
GD32E505	GD32E505RBT6	180	128K	80K	up to 51	1	3	1	2	1	2	1	4+2	3	3	3	HS OTG	2														2(16)	2	LQFP64	
	GD32E505RCT6	180	256K	96K	up to 51	1	3	1	2	1	2	1	4+2	3	3	3	HS OTG	2														2(16)	2	LQFP64	
	GD32E505RET6	180	512K	128K	up to 51	1	9	2	2	1	2	1	4+2	3	3	3	HS OTG	2														2(16)	2	LQFP64	
	GD32E505VCT6	180	256K	96K	up to 80	1	3	1	2	1	2	1	4+2	3	3	3	HS OTG	2															2(16)	2	LQFP100
	GD32E505VET6	180	512K	128K	up to 80	1	9	2	2	1	2	1	4+2	3	3	3	HS OTG	2															2(16)	2	LQFP100
	GD32E505ZCT6	180	256K	96K	up to 112	1	3	2	2	1	2	1	4+2	3	3	3	HS OTG	2															2(16)	2	LQFP144
GD32E505ZET6	180	512K	128K	up to 112	1	9	2	2	1	2	1	4+2	3	3	3	HS OTG	2															2(16)	2	LQFP144	
GD32E507	GD32E507RCT6	180	256K	96K	up to 51	1	3	1	2	1	2	1	4+2	3	3	3	HS OTG	2														2(16)	2	LQFP64	
	GD32E507RET6	180	512K	128K	up to 51	1	9	2	2	1	2	1	4+2	3	3	3	HS OTG	2														2(16)	2	LQFP64	
	GD32E507VCT6	180	256K	96K	up to 80	1	3	1	2	1	2	1	4+2	3	3	3	HS OTG	2															2(16)	2	LQFP100
	GD32E507VET6	180	512K	128K	up to 80	1	9	2	2	1	2	1	4+2	3	3	3	HS OTG	2															2(16)	2	LQFP100
	GD32E507ZCT6	180	256K	96K	up to 112	1	3	2	2	1	2	1	4+2	3	3	3	HS OTG	2															2(16)	2	LQFP144
	GD32E507ZET6	180	512K	128K	up to 112	1	9	2	2	1	2	1	4+2	3	3	3	HS OTG	2															2(16)	2	LQFP144
GD32E508	GD32E508RET6	180	512K	128K	up to 51	1	9	2	2	1	2	1	4+2	3	3	3xFD	HS OTG	2														2(16)	2	LQFP64	
	GD32E508VET6	180	512K	128K	up to 80	1	9	2	2	1	2	1	4+2	3	3	3xFD	HS OTG	2														2(16)	2	LQFP100	
	GD32E508ZET6	180	512K	128K	up to 112	1	9	2	2	1	2	1	4+2	3	3	3xFD	HS OTG	2														2(16)	2	LQFP144	
GD32EPRT	GD32EPRTD6	180	384K	96K+4MB PSRAM	up to 51	1	3	2	2	1	2	1	3+3	3	3		FS	2														3(16)	2	LQFP64	
	GD32EPRTV6	180	384K	96K+4MB PSRAM	up to 80	1	3	2	2	1	2	1	3+3	3	3		FS	2														3(16)	2	LQFP100	

GD32V 系列 RISC-V 内核 32 位通用 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	I ² C	SPI	CAN 2.0 B	USB 2.0FS	I ² S	SDIO		Ethernet	12bit ADC Units (CHs)		12bit DAC Units
GD32VF103	GD32VF103T4U6	108	16K	6K	up to 26	2	1	2	1	2	1	2+0	1	1	2	OTG					2(10)	2	QFN36
	GD32VF103T6U6	108	32K	10K	up to 26	2	1	2	1	2	1	2+0	1	1	2	OTG					2(10)	2	QFN36
	GD32VF103T8U6	108	64K	20K	up to 26	4	1	2	1	2	1	2+0	1	1	2	OTG					2(10)	2	QFN36
	GD32VF103TBU6	108	128K	32K	up to 26	4	1	2	1	2	1	2+0	1	1	2	OTG					2(10)	2	QFN36
	GD32VF103C4T6	108	16K	6K	up to 37	2	1	2	1	2	1	2+0	1	1	2	OTG					2(10)	2	LQFP48
	GD32VF103C6T6	108	32K	10K	up to 37	2	1	2	1	2	1	2+0	1	1	2	OTG					2(10)	2	LQFP48
	GD32VF103C8T6	108	64K	20K	up to 37	4	1	2	1	2	1	3+0	2	3	2	OTG	2				2(10)	2	LQFP48
	GD32VF103CBT6	108	128K	32K	up to 37	4	1	2	1	2	1	3+0	2	3	2	OTG	2				2(10)	2	LQFP48
	GD32VF103R4T6	108	16K	6K	up to 51	2	1	2	1	2	1	2+0	1	1	2	OTG					2(16)	2	LQFP64
	GD32VF103R6T6	108	32K	10K	up to 51	2	1	2	1	2	1	2+0	1	1	2	OTG					2(16)	2	LQFP64
	GD32VF103R8T6	108	64K	20K	up to 51	4	1	2	1	2	1	3+2	2	3	2	OTG	2				2(16)	2	LQFP64
	GD32VF103RBT6	108	128K	32K	up to 51	4	1	2	1	2	1	3+2	2	3	2	OTG	2				2(16)	2	LQFP64
	GD32VF103V8T6	108	64K	20K	up to 80	4	1	2	1	2	1	3+2	2	3	2	OTG	2			•	2(16)	2	LQFP100
GD32VF103VBT6	108	128K	32K	up to 80	4	1	2	1	2	1	3+2	2	3	2	OTG	2			•	2(16)	2	LQFP100	

GD32E23x 系列 ARM® Cortex®-M23 内核 32 位通用 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	I ² C	SPI	USB 2.0FS	I ² S	Comp	OP-AMP	12bit ADC Units(CHs)		12bit DAC Units	
GD32E230	GD32E230F4P6TR	72	16K	4K	up to 15		4	1	1	1	2	1	1	1	1		1	1			1(9)		TSSOP20
	GD32E230F6P6TR	72	32K	6K	up to 15		4	1	1	1	2	1	2	1	1		1	1			1(9)		TSSOP20
	GD32E230F8P6TR	72	64K	8K	up to 15		4	1	1	1	2	1	2	2	2		1	1			1(9)		TSSOP20
	GD32E230F4V6TR	72	16K	4K	up to 15		4	1	1	1	2	1	1	1	1		1	1			1(9)		LGA20
	GD32E230F6V6TR	72	32K	6K	up to 15		4	1	1	1	2	1	2	1	1		1	1			1(9)		LGA20
	GD32E230F8V6TR	72	64K	8K	up to 15		4	1	1	1	2	1	2	2	2		1	1			1(9)		LGA20
	GD32E230G4U6TR	72	16K	4K	up to 23		4	1	1	1	2	1	1	1	1		1	1			1(10)		QFN28
	GD32E230G6U6TR	72	32K	6K	up to 23		4	1	1	1	2	1	2	1	1		1	1			1(10)		QFN28
	GD32E230G8U6TR	72	64K	8K	up to 23		5	1	1	1	2	1	2	2	2		1	1			1(10)		QFN28
	GD32E230K4U6	72	16K	4K	up to 27		4	1	1	1	2	1	1	1	1		1	1			1(10)		QFN32
	GD32E230K6U6	72	32K	6K	up to 27		4	1	1	1	2	1	2	1	1		1	1			1(10)		QFN32
	GD32E230K8U6	72	64K	8K	up to 27		5	1	1	1	2	1	2	2	2		1	1			1(10)		QFN32
	GD32E230K4T6	72	16K	4K	up to 25		4	1	1	1	2	1	1	1	1		1	1			1(10)		LQFP32

GD32E23x 系列

ARM® Cortex®-M23 内核 32 位通用 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)	Bsc TM (16bit)	SysTick (24bit)	WDG	RTC	USART	I ² C	SPI	USB 2.0 FS	I ² S	COMP	OP-AMP		12bit ADC Units (CHs)	12bit DAC Units	
GD32E230	GD32E230K6T6	72	32K	6K	up to 25		4	1	1	1	2	1	2	1	1						1(10)		LQFP32
	GD32E230K8T6	72	64K	8K	up to 25		5	1	1	1	2	1	2	2	2						1(10)		LQFP32
	GD32E230C4T6	72	16K	4K	up to 39		4	1	1	1	2	1	1	1	1						1(10)		LQFP48
	GD32E230C6T6	72	32K	6K	up to 39		4	1	1	1	2	1	2	1	1						1(10)		LQFP48
	GD32E230C8T6	72	64K	8K	up to 39		5	1	1	1	2	1	2	2	2						1(10)		LQFP48
GD32E232	GD32E232E4U7TR	72	16K	4K	up to 18	1	4	1	2	1	2	1	2	2	1						1(9)	4	QFN24
	GD32E232E6U7TR	72	32K	6K	up to 18	1	4	1	2	1	2	1	2	2	1						1(9)	4	QFN24
	GD32E232E8U7TR	72	64K	8K	up to 18	1	5	1	2	1	2	1	2	2	2						1(9)	4	QFN24
	GD32E232K4Q7TR	72	16K	4K	up to 28	1	4	1	2	1	2	1	2	2	1						1(16)	4	QFN32
	GD32E232K6Q7TR	72	32K	6K	up to 28	1	4	1	2	1	2	1	2	2	1						1(16)	4	QFN32
	GD32E232K8Q7TR	72	64K	8K	up to 28	1	5	1	2	1	2	1	2	2	2						1(16)	4	QFN32

GD32E1 系列

ARM® Cortex®-M4 内核 32 位通用 MCU 选型



Series	Part No.	Max Speed (MHz)	Memory (Bytes)		I/O	Timer						Connectivity						EXMC	Analog Interface		Package				
			Flash	SRAM		GPTM (16bit)	Adv TM (16bit)	Bsc TM (16bit)	SysTick (24bit)	WDG	RTC	USART +UART	I ² C	SPI	CAN 2.0B	USB 2.0 FS	I ² S		SDIO	Ethernet		12bit ADC Units (CHs)	12bit DAC Units		
GD32E113	GD32E113T8U6	120	64K	20K	up to 26	4	1	2	1	2	1	2+0	1	1			OTG						2(10)	2	QFN36
	GD32E113TBU6	120	128K	32K	up to 26	4	1	2	1	2	1	2+0	1	1			OTG						2(10)	2	QFN36
	GD32E113C8T6	120	64K	20K	up to 37	10	1	2	1	2	1	3+0	2	3			OTG	2					2(10)	2	LQFP48
	GD32E113CBT6	120	128K	32K	up to 37	10	1	2	1	2	1	3+0	2	3			OTG	2					2(10)	2	LQFP48
	GD32E113R8T6	120	64K	20K	up to 51	10	2	2	1	2	1	3+2	2	3			OTG	2					2(16)	2	LQFP64
	GD32E113RBT6	120	128K	32K	up to 51	10	2	2	1	2	1	3+2	2	3			OTG	2					2(16)	2	LQFP64
	GD32E113V8T6	120	64K	20K	up to 80	10	2	2	1	2	1	3+2	2	3			OTG	2			•		2(16)	2	LQFP100
GD32C113	GD32E113VBT6	120	128K	32K	up to 80	10	2	2	1	2	1	3+2	2	3			OTG	2			•		2(16)	2	LQFP100
	GD32C113TBU6	120	128K	32K	up to 26	4	1	2	1	2	1	2+0	1	1	2 x FD		OTG						2(10)	2	QFN36
	GD32C113CBT6	120	128K	32K	up to 37	10	1	2	1	2	1	3+0	2	3	2 x FD		OTG	2					2(10)	2	LQFP48
	GD32C113RBT6	120	128K	32K	up to 51	10	2	2	1	2	1	3+2	2	3	2 x FD		OTG	2					2(16)	2	LQFP64
GD32C113VBT6	120	128K	32K	up to 80	10	2	2	1	2	1	3+2	2	3	2 x FD		OTG	2				•		2(16)	2	LQFP100

Series	Part No.	Max Speed (MHz)	Memory (Bytes)		I/O	Timer						Connectivity						EXMC	Analog Interface		Package					
			Flash	SRAM		GPTM (16bit)	Adv TM (16bit)	Bsc TM (16bit)	SysTick (24bit)	WDG	RTC	USART +UART	I ² C	SPI	CAN 2.0B	USB 2.0 FS	I ² S		SDIO	Ethernet		12bit ADC Units (CHs)	12bit DAC Units			
GD32E103	GD32E103T8U6	120	64K	20K	up to 26	4	1	2	1	2	1	2+0	1	1			OTG							2(10)	2	QFN36
	GD32E103TBU6	120	128K	32K	up to 26	4	1	2	1	2	1	2+0	1	1			OTG							2(10)	2	QFN36
	GD32E103C8T6	120	64K	20K	up to 37	10	1	2	1	2	1	3+0	2	3			OTG	2						2(10)	2	LQFP48
	GD32E103CBT6	120	128K	32K	up to 37	10	1	2	1	2	1	3+0	2	3			OTG	2						2(10)	2	LQFP48
	GD32E103R8T6	120	64K	20K	up to 51	10	2	2	1	2	1	3+2	2	3			OTG	2						2(16)	2	LQFP64
	GD32E103RBT6	120	128K	32K	up to 51	10	2	2	1	2	1	3+2	2	3			OTG	2						2(16)	2	LQFP64
	GD32E103V8T6	120	64K	20K	up to 80	10	2	2	1	2	1	3+2	2	3			OTG	2			•			2(16)	2	LQFP100
GD32C103	GD32E103VBT6	120	128K	32K	up to 80	10	2	2	1	2	1	3+2	2	3			OTG	2			•			2(16)	2	LQFP100
	GD32C103TBU6	120	128K	32K	up to 26	4	1	2	1	2	1	2+0	1	1	2 x FD		OTG							2(10)	2	QFN36
	GD32C103CBT6	120	128K	32K	up to 37	10	1	2	1	2	1	3+0	2	3	2 x FD		OTG	2						2(10)	2	LQFP48
	GD32C103RBT6	120	128K	32K	up to 51	10	2	2	1	2	1	3+2	2	3	2 x FD		OTG	2						2(16)	2	LQFP64
GD32C103VBT6	120	128K	32K	up to 80	10	2	2	1	2	1	3+2	2	3	2 x FD		OTG	2				•			2(16)	2	LQFP100

GD32F4 系列

ARM® Cortex®-M4 内核 32 位通用 MCU 选型



Series	Part No.	Max Speed (MHz)	Memory (Bytes)		I/O	Timer						Connectivity										Analog Interface		Package					
			Flash	SRAM		GPTM (16bit)	Adv TM (16bit)	GPTM (32bit)	Bsc TM (16bit)	WDG	RTC	USART +UART	I ² C	SPI	CAN 2.0B	USB OTG	I ² S	SDIO	LCD-TFT	Cam era	ETH MAC	IPA	EXMC/SDRAM		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	3072K	256K	up to 51	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1							3(16)	2	LQFP64
	GD32F425VGT6	200	1024K	256K	up to 82	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1							3(16)	2	LQFP100
	GD32F425VKT6	200	3072K	256K	up to 82	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1							3(16)	2	LQFP100
	GD32F425VGH6	200	1024K	256K	up to 82	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1							3(16)	2	BGA100
	GD32F425VKH6	200	3072K	256K	up to 82	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1							3(16)	2	BGA100
	GD32F425ZGT6	200	1024K	256K	up to 114	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1							3(24)	2	LQFP144
	GD32F425ZKT6	200	3072K	256K	up to 114	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1							3(24)	2	LQFP144
GD32F427	GD32F427RET6	200	512K	256K	up to 51	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1						3(16)	2	LQFP64
	GD32F427RGT6	200	1024K	256K	up to 51	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1						3(16)	2	LQFP64
	GD32F427RKT6	200	3072K	256K	up to 51	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1						3(16)	2	LQFP64
	GD32F427VET6	200	512K	256K	up to 82	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1		1/0				3(16)	2	LQFP100
	GD32F427VGT6	200	1024K	256K	up to 82	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1		1/0				3(16)	2	LQFP100
	GD32F427VKT6	200	3072K	256K	up to 82	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1		1/0				3(16)	2	LQFP100
	GD32F427VEH6	200	512K	256K	up to 82	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1		1/0				3(16)	2	BGA100
	GD32F427VGH6	200	1024K	256K	up to 82	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1		1/0				3(16)	2	BGA100
	GD32F427VKH6	200	3072K	256K	up to 82	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1		1/0				3(16)	2	BGA100
	GD32F427ZET6	200	512K	256K	up to 114	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1		1/1				3(24)	2	LQFP144
	GD32F427ZGT6	200	1024K	256K	up to 114	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1		1/1				3(24)	2	LQFP144
	GD32F427ZKT6	200	3072K	256K	up to 114	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1		1/1				3(24)	2	LQFP144
	GD32F427IEH6	200	512K	256K	up to 140	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1		1/1				3(24)	2	BGA176
	GD32F427IGH6	200	1024K	256K	up to 140	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1		1/1				3(24)	2	BGA176
	GD32F427IKH6	200	3072K	256K	up to 140	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1		1/1				3(24)	2	BGA176
GD32F470	GD32F470VET6	240	512K	256K	up to 82	8	2	2	2	2	1	4+4	3	5	2	FS+HS	2	1	1	1	1	1	1/0				3(16)	2	LQFP100
	GD32F470VGT6	240	1024K	512K	up to 82	8	2	2	2	2	1	4+4	3	5	2	FS+HS	2	1	1	1	1	1	1/0				3(16)	2	LQFP100
	GD32F470VIT6	240	2048K	768K	up to 82	8	2	2	2	2	1	4+4	3	5	2	FS+HS	2	1	1	1	1	1	1/0				3(16)	2	LQFP100
	GD32F470VKT6	240	3072K	256K	up to 82	8	2	2	2	2	1	4+4	3	5	2	FS+HS	2	1	1	1	1	1	1/0				3(16)	2	LQFP100
	GD32F470VGH6	240	1024K	512K	up to 82	8	2	2	2	2	1	4+4	3	5	2	FS+HS	2	1	1	1	1	1	1/0				3(16)	2	BGA100
	GD32F470VIH6	240	2048K	768K	up to 82	8	2	2	2	2	1	4+4	3	5	2	FS+HS	2	1	1	1	1	1	1/0				3(16)	2	BGA100
	GD32F470VKH6	240	3072K	256K	up to 82	8	2	2	2	2	1	4+4	3	5	2	FS+HS	2	1	1	1	1	1	1/0				3(16)	2	BGA100
	GD32F470ZET6	240	512K	256K	up to 114	8	2	2	2	2	1	4+4	3	6	2	FS+HS	2	1	1	1	1	1	1/1				3(24)	2	LQFP144
	GD32F470ZGT6	240	1024K	512K	up to 114	8	2	2	2	2	1	4+4	3	6	2	FS+HS	2	1	1	1	1	1	1/1				3(24)	2	LQFP144
	GD32F470ZIT6	240	2048K	768K	up to 114	8	2	2	2	2	1	4+4	3	6	2	FS+HS	2	1	1	1	1	1	1/1				3(24)	2	LQFP144
	GD32F470ZKT6	240	3072K	256K	up to 114	8	2	2	2	2	1	4+4	3	6	2	FS+HS	2	1	1	1	1	1	1/1				3(24)	2	LQFP144
	GD32F470IGH6	240	1024K	512K	up to 140	8	2	2	2	2	1	4+4	3	6	2	FS+HS	2	1	1	1	1	1	1/1				3(24)	2	BGA176
	GD32F470IIH6	240	2048K	768K	up to 140	8	2	2	2	2	1	4+4	3	6	2	FS+HS	2	1	1	1	1	1	1/1				3(24)	2	BGA176
	GD32F470IKH6	240	3072K	256K	up to 140	8	2	2	2	2	1	4+4	3	6	2	FS+HS	2	1	1	1	1	1	1/1				3(24)	2	BGA176

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)	Bsc TM (16bit)	WDG	RTC	USART +UART	I ² C	SPI	CAN 2.0B	USB OTG	I ² S	SDIO	LCD-TFT	Cam era	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	128K	up to 51	8	2		2	2	1	3+2	2	3	2	OTG	2	1					0/0	3(16)	2	LQFP64
	GD32F403RIT6	168	2048K	128K	up to 51	8	2		2	2	1	3+2	2	3	2	OTG	2	1					0/0	3(16)	2	LQFP64
	GD32F403RKT6	168	3072K	128K	up to 51	8	2		2	2	1	3+2	2	3	2	OTG	2	1					0/0	3(16)	2	LQFP64
	GD32F403VCT6	168	256K	64K	up to 80	8	2		2	2	1	3+2	2	3	2	OTG	2	1					1/0	3(16)	2	LQFP100
	GD32F403VET6	168	512K	96K	up to 80	8	2		2	2	1	3+2	2	3	2	OTG	2	1					1/0	3(16)	2	LQFP100
	GD32F403VGT6	168	1024K	128K	up to 80	8	2		2	2	1	3+2	2	3	2	OTG	2	1					1/0	3(16)	2	LQFP100
	GD32F403VIT6	168	2048K	128K	up to 80	8	2		2	2	1	3+2	2	3	2	OTG	2	1					1/0	3(16)	2	LQFP100
	GD32F403VKT6	168	3072K	128K	up to 80	8	2		2	2	1	3+2	2	3	2	OTG	2	1					1/0	3(16)	2	LQFP100
	GD32F403VCH6	168	256K	64K	up to 80	8	2		2	2	1	3+2	2	3	2	OTG	2	1					1/0	3(16)	2	BGA100
	GD32F403VEH6	168	512K	96K	up to 80	8	2		2	2	1	3+2	2	3	2	OTG	2	1					1/0	3(16)	2	BGA100
	GD32F403VGH6	168	1024K	128K	up to 80	8	2		2	2	1	3+2	2	3	2	OTG	2	1					1/0	3(16)	2	BGA100
	GD32F403VIH6	168	2048K	128K	up to 80	8	2		2	2	1	3+2	2	3	2	OTG	2	1					1/0	3(16)	2	BGA100
	GD32F403VKH6	168	3072K	128K	up to 80	8	2		2	2	1	3+2	2	3	2	OTG	2	1					1/0	3(16)	2	BGA100
	GD32F403ZCT6	168	256K	64K	up to 112	8	2		2	2	1	3+2	2	3	2	OTG	2	1					1/0	3(21)	2	LQFP144
GD32F403ZET6	168	512K	96K	up to 112	8	2		2	2	1	3+2	2	3	2	OTG	2	1					1/0	3(21)	2	LQFP144	
GD32F403ZGT6	168	1024K	128K	up to 112	8	2		2	2	1	3+2	2	3	2	OTG	2	1					1/0	3(21)	2	LQFP144	
GD32F403ZIT6	168	2048K	128K	up to 112	8	2		2	2	1	3+2	2	3	2	OTG	2	1					1/0	3(21)	2	LQFP144	
GD32F403ZKT6	168	3072K	128K	up to 112	8	2		2	2	1	3+2	2	3	2	OTG	2	1					1/0	3(21)	2	LQFP144	
GD32F405	GD32F405RET6	168	512K	192K	up to 51	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1				3(16)	2	LQFP64
	GD32F405RGT6	168	1024K	192K	up to 51	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1				3(16)	2	LQFP64
	GD32F405RKT6	168	3072K	192K	up to 51	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1				3(16)	2	LQFP64
	GD32F405VGT6	168	1024K	192K	up to 82	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1				3(16)	2	LQFP100
	GD32F405VKT6	168	3072K	192K	up to 82	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1				3(16)	2	LQFP100
	GD32F405VGH6	168	1024K	192K	up to 82	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1				3(16)	2	BGA100
	GD32F405VKH6	168	3072K	192K	up to 82	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1				3(16)	2	BGA100
	GD32F405ZGT6	168	1024K	192K	up to 114	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1				3(24)	2	LQFP144
	GD32F405ZKT6	168	3072K	192K	up to 114	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1				3(24)	2	LQFP144
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	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
	GD32F407VET6	168	512K	192K	up to 82	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1		1/0	3(16)	2	LQFP100
	GD32F407VGT6	168	1024K	192K	up to 82	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1		1/0	3(16)	2	LQFP100
	GD32F407VKT6	168	3072K	192K	up to 82	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1		1/0	3(16)	2	LQFP100
	GD32F407VEH6	168	512K	192K	up to 82	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1		1/0	3(16)	2	BGA100
	GD32F407VGH6	168	1024K	192K	up to 82	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1		1/0	3(16)	2	BGA100
	GD32F407VKH6	168	3072K	192K	up to 82	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1		1/0	3(16)	2	BGA100
	GD32F407ZET6	168	512K	192K	up to 114	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1		1/1	3(24)	2	LQFP144
	GD32F407ZGT6	168	1024K	192K	up to 114	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1		1/1	3(24)	2	LQFP144
	GD32F407ZKT6	168	3072K	192K	up to 114	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1		1/1	3(24)	2	LQFP144
	GD32F407IEH6	168	512K	192K	up to 140	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1		1/1	3(24)	2	BGA176
GD32F407IGH6	168	1024K	192K	up to 140	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1		1/1	3(24)	2	BGA176	
GD32F407IKH6	168	3072K	192K	up to 140	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1		1/1	3(24)	2	BGA176	
GD32F450	GD32F450VET6	200	512K	256K	up to 82	8	2	2	2	2	1	4+4	3	5	2	FS+HS	2	1	1	1	1	1	1/0	3(16)	2	LQFP100
	GD32F450VGT6	200	1024K	256K	up to 82	8	2	2	2	2	1	4+4	3	5	2	FS+HS	2	1	1	1	1	1	1/0	3(16)	2	LQFP100
	GD32F450VIT6	200	2048K	512K	up to 82	8	2	2	2	2	1	4+4	3	5	2	FS+HS	2	1	1	1	1	1	1/0	3(16)	2	LQFP100
	GD32F450VKT6	200	3072K	256K	up to 82	8	2	2	2	2	1	4+4	3	5	2	FS+HS	2	1	1	1	1	1	1/0	3(16)	2	LQFP100
	GD32F450ZET6	200	512K	256K	up to 114	8	2	2	2	2	1	4+4	3	6	2	FS+HS	2	1	1	1	1	1	1/1	3(24)	2	LQFP144
	GD32F450ZGT6	200	1024K	256K	up to 114	8	2	2	2	2	1	4+4	3	6	2	FS+HS	2	1	1	1	1	1	1/1	3(24)	2	LQFP144
	GD32F450ZIT6	200	2048K	512K	up to 114	8	2	2	2	2	1	4+4	3	6	2	FS+HS	2	1	1	1	1	1	1/1	3(24)	2	LQFP144
	GD32F450ZKT6	200	3072K	256K	up to 114	8	2	2	2	2	1	4+4	3	6	2	FS+HS	2	1	1	1	1	1	1/1	3(24)	2	LQFP144
	GD32F450IGH6	200	1024K	256K	up to 140	8	2	2	2	2	1	4+4	3	6	2	FS+HS	2	1	1	1	1	1	1/1	3(24)	2	BGA176
	GD32F450IHH6	200	2048K	512K	up to 140	8	2	2	2	2	1	4+4	3	6	2	FS+HS	2	1	1	1	1	1	1/1	3(24)	2	BGA176
GD32F450IKH6	200	3072K	256K	up to 140	8	2	2	2	2	1	4+4	3	6	2	FS+HS	2	1	1	1	1	1	1/1	3(24)	2	BGA176	

GD32F3 系列

ARM® Cortex®-M4 内核 32 位通用 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	I ² C	SPI	CAN 2.0B	USB 2.0 FS	I ² S	SDIO		Ethernet	12bit ADC Units (CHs)		12bit DAC Units		
GD32F303	GD32F303CBT6	120	128K	32K	up to 37	4	1	2	1	2	1	3	2	3	1	1	2					3(10)	2	LQFP48	
	GD32F303CCT6	120	256K	48K	up to 37	4	1	2	1	2	1	3	2	3	1	1	2					3(10)	2	LQFP48	
	GD32F303CET6	120	512K	64K	up to 37	4	1	2	1	2	1	3	2	3	1	1	2					3(10)	2	LQFP48	
	GD32F303CGT6	120	1024K	96K	up to 37	10	1	2	1	2	1	3	2	3	1	1	2					3(10)	2	LQFP48	
	GD32F303RBT6	120	128K	32K	up to 51	4	2	2	1	2	1	5	2	3	1	1	2					3(16)	2	LQFP64	
	GD32F303RCT6	120	256K	48K	up to 51	4	2	2	1	2	1	5	2	3	1	1	2	1					3(16)	2	LQFP64
	GD32F303RET6	120	512K	64K	up to 51	4	2	2	1	2	1	5	2	3	1	1	2	1					3(16)	2	LQFP64
	GD32F303RGT6	120	1024K	96K	up to 51	10	2	2	1	2	1	5	2	3	1	1	2	1					3(16)	2	LQFP64
	GD32F303RIT6	120	2048K	96K	up to 51	10	2	2	1	2	1	5	2	3	1	1	2	1					3(16)	2	LQFP64
	GD32F303RKT6	120	3072K	96K	up to 51	10	2	2	1	2	1	5	2	3	1	1	2	1					3(16)	2	LQFP64
	GD32F303VBT6	120	128K	32K	up to 80	4	2	2	1	2	1	5	2	3	1	1	2				•	3(16)	2	LQFP100	
	GD32F303VCT6	120	256K	48K	up to 80	4	2	2	1	2	1	5	2	3	1	1	2	1			•	3(16)	2	LQFP100	
	GD32F303VET6	120	512K	64K	up to 80	4	2	2	1	2	1	5	2	3	1	1	2	1			•	3(16)	2	LQFP100	
	GD32F303VGT6	120	1024K	96K	up to 80	10	2	2	1	2	1	5	2	3	1	1	2	1			•	3(16)	2	LQFP100	
	GD32F303VIT6	120	2048K	96K	up to 80	10	2	2	1	2	1	5	2	3	1	1	2	1			•	3(16)	2	LQFP100	
	GD32F303VKT6	120	3072K	96K	up to 80	10	2	2	1	2	1	5	2	3	1	1	2	1			•	3(16)	2	LQFP100	
	GD32F303ZCT6	120	256K	48K	up to 112	4	2	2	1	2	1	5	2	3	1	1	2	1			•	3(21)	2	LQFP144	
	GD32F303ZET6	120	512K	64K	up to 112	4	2	2	1	2	1	5	2	3	1	1	2	1			•	3(21)	2	LQFP144	
	GD32F303ZGT6	120	1024K	96K	up to 112	10	2	2	1	2	1	5	2	3	1	1	2	1			•	3(21)	2	LQFP144	
GD32F303ZIT6	120	2048K	96K	up to 112	10	2	2	1	2	1	5	2	3	1	1	2	1			•	3(21)	2	LQFP144		
GD32F303ZKT6	120	3072K	96K	up to 112	10	2	2	1	2	1	5	2	3	1	1	2	1			•	3(21)	2	LQFP144		
GD32F305	GD32F305RBT6	120	128K	64K	up to 51	4	1	2	1	2	1	5	2	3	2	OTG	2					2(16)	2	LQFP64	
	GD32F305RCT6	120	256K	96K	up to 51	4	1	2	1	2	1	5	2	3	2	OTG	2					2(16)	2	LQFP64	
	GD32F305RET6	120	512K	96K	up to 51	4	2	2	1	2	1	5	2	3	2	OTG	2					2(16)	2	LQFP64	
	GD32F305RGT6	120	1024K	96K	up to 51	10	2	2	1	2	1	5	2	3	2	OTG	2					2(16)	2	LQFP64	
	GD32F305VCT6	120	256K	96K	up to 80	4	1	2	1	2	1	5	2	3	2	OTG	2			•		2(16)	2	LQFP100	
	GD32F305VET6	120	512K	96K	up to 80	4	2	2	1	2	1	5	2	3	2	OTG	2			•		2(16)	2	LQFP100	
	GD32F305VGT6	120	1024K	96K	up to 80	10	2	2	1	2	1	5	2	3	2	OTG	2			•		2(16)	2	LQFP100	
	GD32F305ZCT6	120	256K	96K	up to 112	4	2	2	1	2	1	5	2	3	2	OTG	2			•		2(16)	2	LQFP144	
	GD32F305ZET6	120	512K	96K	up to 112	4	2	2	1	2	1	5	2	3	2	OTG	2			•		2(16)	2	LQFP144	
GD32F305ZGT6	120	1024K	96K	up to 112	10	2	2	1	2	1	5	2	3	2	OTG	2			•		2(16)	2	LQFP144		
GD32F307	GD32F307RCT6	120	256K	96K	up to 51	4	1	2	1	2	1	5	2	3	2	OTG	2			•		2(16)	2	LQFP64	
	GD32F307RET6	120	512K	96K	up to 51	4	2	2	1	2	1	5	2	3	2	OTG	2			•		2(16)	2	LQFP64	
	GD32F307RGT6	120	1024K	96K	up to 51	10	2	2	1	2	1	5	2	3	2	OTG	2			•		2(16)	2	LQFP64	
	GD32F307VCT6	120	256K	96K	up to 80	4	1	2	1	2	1	5	2	3	2	OTG	2			•	•	2(16)	2	LQFP100	
	GD32F307VET6	120	512K	96K	up to 80	4	2	2	1	2	1	5	2	3	2	OTG	2			•	•	2(16)	2	LQFP100	
	GD32F307VGT6	120	1024K	96K	up to 80	10	2	2	1	2	1	5	2	3	2	OTG	2			•	•	2(16)	2	LQFP100	
	GD32F307ZCT6	120	256K	96K	up to 112	4	2	2	1	2	1	5	2	3	2	OTG	2			•	•	2(16)	2	LQFP144	
	GD32F307ZET6	120	512K	96K	up to 112	4	2	2	1	2	1	5	2	3	2	OTG	2			•	•	2(16)	2	LQFP144	
GD32F307ZGT6	120	1024K	96K	up to 112	10	2	2	1	2	1	5	2	3	2	OTG	2			•	•	2(16)	2	LQFP144		

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	I ² C	SPI	USB 2.0 FS	I ² S	CEC	Comp	12bit ADC Units (CHs)		12bit DAC Units
GD32F310	GD32F310F4P6TR	72	16K	4K	up to 15		4	1		1	2	1	1	1	1					1(9)		TSSOP20
	GD32F310F6P6TR	72	32K	6K	up to 15		4	1		1	2	1	2	1	1					1(9)		TSSOP20
	GD32F310F8P6TR	72	64K	8K	up to 15		4	1		1	2	1	2	2	2					1(9)		TSSOP20
	GD32F310G8U6TR	72	64K	8K	up to 23		5	1		1	2	1	2	2	2					1(10)		QFN28
	GD32F310K8U6	72	64K	8K	up to 27		5	1		1	2	1	2	2	2					1(10)		QFN32
	GD32F310K6T6	72	32K	6K	up to 25		4	1		1	2	1	2	1	1					1(10)		LQFP32
	GD32F310K8T6	72	64K	8K	up to 25		5	1		1	2	1	2	2	2					1(10)		LQFP32
	GD32F310C8T6	72	64K	8K	up to 39		5	1		1	2	1	2	2	2					1(10)		LQFP48
GD32F330	GD32F330F4P6TR	84	16K	4K	up to 15	1	4	1		1	2	1	1	1	1					1(9)		TSSOP20
	GD32F330F6P6TR	84	32K	4K	up to 15	1	4	1		1	2	1	2	1	1					1(9)		TSSOP20
	GD32F330F8P6TR	84	64K	8K	up to 15	1	4	1		1	2	1	2	2	2					1(9)		TSSOP20
	GD32F330G4U6TR	84	16K	4K	up to 23	1	4	1		1	2	1	1	1	1					1(10)		QFN28
	GD32F330G6U6TR	84	32K	4K	up to 23	1	4	1		1	2	1	2	1	1					1(10)		QFN28
	GD32F330G8U6TR	84	64K	8K	up to 23	1	5	1		1	2	1	2	2	2					1(10)		QFN28
	GD32F330K4U6	84	16K	4K	up to 27	1	4	1		1	2	1	1	1	1					1(10)		QFN32
	GD32F330K6U6	84	32K	4K	up to 27	1	4	1		1	2	1	2	1	1					1(10)		QFN32
	GD32F330K8U6	84	64K	8K	up to 27	1	5	1		1	2	1	2	2	2					1(10)		QFN32
	GD32F330K4T6	84	16K	4K	up to 27	1	4	1		1	2	1	1	1	1					1(10)		LQFP32
	GD32F330K6T6	84	32K	4K	up to 27	1	4	1		1	2	1	2	1	1					1(10)		LQFP32
	GD32F330K8T6	84	64K	8K	up to 27	1	5	1		1	2	1	2	2	2					1(10)		LQFP32
	GD32F330C4T6	84	16K	4K	up to 39	1	4	1		1	2	1	1	1	1					1(10)		LQFP48
	GD32F330C6T6	84	32K	4K	up to 39	1	4	1		1	2	1	2	1	1					1(10)		LQFP48
	GD32F330C8T6	84	64K	8K	up to 39	1	5	1		1	2	1	2	2	2					1(10)		LQFP48
	GD32F330CBT6	84	128K	16K	up to 39	1	5	1		1	2	1	2	2	2					1(10)		LQFP48
	GD32F330R8T6	84	64K	16K	up to 55	1	5	1		1	2	1	2	2	2					1(16)		LQFP64
	GD32F330RBT6	84	128K	16K	up to 55	1	5	1		1	2	1	2	2	2					1(16)		LQFP64
GD32F350	GD32F350G4U6TR	108	16K	4K	up to 24	1	5	1	1	1	2	1	1	1	OTG	1	1	2		1(10)	1	QFN28
	GD32F350G6U6TR	108	32K	6K	up to 24	1	5	1	1	1	2	1	2	1	OTG	1	1	2		1(10)	1	QFN28
	GD32F350G8U6TR	108	64K	8K	up to 24	1	5	1	1	1	2	1	2	2	OTG	1	1	2		1(10)	1	QFN28
	GD32F350K4U6	108	16K	4K	up to 27	1	5	1	1	1	2	1	1	1	OTG	1	1	2		1(10)	1	QFN32
	GD32F350K6U6	108	32K	6K	up to 27	1	5	1	1	1	2	1	2	1	OTG	1	1	2		1(10)	1	QFN32
	GD32F350K8U6	108	64K	8K	up to 27	1	5	1	1	1	2	1	2	2	OTG	1	1	2		1(10)	1	QFN32
	GD32F350C4T6	108	16K	4K	up to 39	1	5	1	1	1	2	1	1	1	OTG	1	1	2		1(10)	1	LQFP48
	GD32F350C6T6	108	32K	6K	up to 39	1	5	1	1	1	2	1	2	1	OTG	1	1	2		1(10)	1	LQFP48
	GD32F350C8T6	108	64K	8K	up to 39	1	5	1	1	1	2	1	2	2	OTG	1	1	2		1(10)	1	LQFP48
	GD32F350CBT6	108	128K	16K	up to 39	1	5	1	1	1	2	1	2	2	OTG	1	1	2		1(10)	1	LQFP48
	GD32F350R4T6	108	16K	4K	up to 55	1	5	1	1	1	2	1	1	1	OTG	1	1	2		1(16)	1	LQFP64
	GD32F350R6T6	108	32K	8K	up to 55	1	5	1	1	1	2	1	2	1	OTG	1	1	2		1(16)	1	LQFP64
	GD32F350R8T6	108	64K	16K	up to 55	1	5	1	1	1	2	1	2	2	OTG	1	1	2		1(16)	1	LQFP64
	GD32F350RBT6	108	128K	16K	up to 55	1	5	1	1	1	2	1	2	2	OTG	1	1	2		1(16)	1	LQFP64

GD32F2 系列

ARM® Cortex®-M3 内核 32 位通用 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)	Bsc TM (16bit)	SysTick (24bit)	WDG	RTC	USART+UART	I ² C	SPI	CAN 2.0B	USB 2.0 FS	I ² S	SDIO	LCD-TFT	Camera	ETH MAC		Crypto/Hash	12bit ADC Units (CHs)		12bit DAC Units			
GD32F205	GD32F205RCT6	120	256K	128K	up to 51	10	2	2	1	2	1	4+2	3	3	2	OTG	2	1									3(16)	2	LQFP64
	GD32F205RET6	120	512K	128K	up to 51	10	2	2	1	2	1	4+2	3	3	2	OTG	2	1									3(16)	2	LQFP64
	GD32F205RGT6	120	1024K	256K	up to 51	10	2	2	1	2	1	4+2	3	3	2	OTG	2	1									3(16)	2	LQFP64
	GD32F205RKT6	120	3072K	256K	up to 51	10	2	2	1	2	1	4+2	3	3	2	OTG	2	1									3(16)	2	LQFP64
	GD32F205VCT6	120	256K	128K	up to 82	10	2	2	1	2	1	4+4	3	3	2	OTG	2	1	1						1/0	3(16)	2	LQFP100	
	GD32F205VET6	120	512K	128K	up to 82	10	2	2	1	2	1	4+4	3	3	2	OTG	2	1	1						1/0	3(16)	2	LQFP100	
	GD32F205VGT6	120	1024K	256K	up to 82	10	2	2	1	2	1	4+4	3	3	2	OTG	2	1	1						1/0	3(16)	2	LQFP100	
	GD32F205VKT6	120	3072K	256K	up to 82	10	2	2	1	2	1	4+4	3	3	2	OTG	2	1	1						1/0	3(16)	2	LQFP100	
	GD32F205ZCT6	120	256K	128K	up to 114	10	2	2	1	2	1	4+4	3	3	2	OTG	2	1	1						1/1	3(24)	2	LQFP144	
	GD32F205ZET6	120	512K	128K	up to 114	10	2	2	1	2	1	4+4	3	3	2	OTG	2	1	1						1/1	3(24)	2	LQFP144	
	GD32F205ZGT6	120	1024K	256K	up to 114	10	2	2	1	2	1	4+4	3	3	2	OTG	2	1	1						1/1	3(24)	2	LQFP144	
GD32F207	GD32F207RCT6	120	256K	128K	up to 51	10	2	2	1	2	1	4+2	3	3	2	OTG	2	1			1	1	1			3(16)	2	LQFP64	
	GD32F207RET6	120	512K	128K	up to 51	10	2	2	1	2	1	4+2	3	3	2	OTG	2	1			1	1	1			3(16)	2	LQFP64	
	GD32F207RGT6	120	1024K	256K	up to 51	10	2	2	1	2	1	4+2	3	3	2	OTG	2	1			1	1	1			3(16)	2	LQFP64	
	GD32F207RKT6	120	3072K	256K	up to 51	10	2	2	1	2	1	4+2	3	3	2	OTG	2	1			1	1	1			3(16)	2	LQFP64	
	GD32F207VCT6	120	256K	128K	up to 82	10	2	2	1	2	1	4+4	3	3	2	OTG	2	1	1	1	1	1	1		1/0	3(16)	2	LQFP100	
	GD32F207VET6	120	512K	128K	up to 82	10	2	2	1	2	1	4+4	3	3	2	OTG	2	1	1	1	1	1	1		1/0	3(16)	2	LQFP100	
	GD32F207VGT6	120	1024K	256K	up to 82	10	2	2	1	2	1	4+4	3	3	2	OTG	2	1	1	1	1	1	1		1/0	3(16)	2	LQFP100	
	GD32F207VKT6	120	3072K	256K	up to 82	10	2	2	1	2	1	4+4	3	3	2	OTG	2	1	1	1	1	1	1		1/0	3(16)	2	LQFP100	
	GD32F207ZCT6	120	256K	128K	up to 114	10	2	2	1	2	1	4+4	3	3	2	OTG	2	1	1	1	1	1	1		1/1	3(24)	2	LQFP144	
	GD32F207ZET6	120	512K	128K	up to 114	10	2	2	1	2	1	4+4	3	3	2	OTG	2	1	1	1	1	1	1		1/1	3(24)	2	LQFP144	
	GD32F207ZGT6	120	1024K	256K	up to 114	10	2	2	1	2	1	4+4	3	3	2	OTG	2	1	1	1	1	1	1		1/1	3(24)	2	LQFP144	
	GD32F207ZKT6	120	3072K	256K	up to 114	10	2	2	1	2	1	4+4	3	3	2	OTG	2	1	1	1	1	1	1		1/1	3(24)	2	LQFP144	
	GD32F207IET6	120	512K	128K	up to 140	10	2	2	1	2	1	4+4	3	3	2	OTG	2	1	1	1	1	1	1		1/1	3(24)	2	LQFP176	
	GD32F207IGT6	120	1024K	256K	up to 140	10	2	2	1	2	1	4+4	3	3	2	OTG	2	1	1	1	1	1	1		1/1	3(24)	2	LQFP176	
	GD32F207IKT6	120	3072K	256K	up to 140	10	2	2	1	2	1	4+4	3	3	2	OTG	2	1	1	1	1	1	1		1/1	3(24)	2	LQFP176	

GD32F1 系列

ARM® Cortex®-M3 内核 32 位通用 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)	I ² C	SPI	CAN 2.0B	USB 2.0 FS	I ² S		SDIO	Ethernet		12bit ADC Units (CHs)
GD32F103	GD32F103T4U6	108	16K	6K	up to 26	2	1		1	2	1	2	1	1	1	1				2(10)		QFN36
	GD32F103T6U6	108	32K	10K	up to 26	2	1		1	2	1	2	1	1	1	1				2(10)		QFN36
	GD32F103T8U6	108	64K	20K	up to 26	3	1		1	2	1	2	1	1	1	1				2(10)		QFN36
	GD32F103TBU6	108	128K	20K	up to 26	3	1		1	2	1	2	1	1	1	1				2(10)		QFN36
	GD32F103C4T6	108	16K	6K	up to 37	2	1		1	2	1	2	1	1	1	1				2(10)		LQFP48
	GD32F103C6T6	108	32K	10K	up to 37	2	1		1	2	1	2	1	1	1	1				2(10)		LQFP48
	GD32F103C8T6	108	64K	20K	up to 37	3	1		1	2	1	3	2	2	1	1				2(10)		LQFP48
	GD32F103CBT6	108	128K	20K	up to 37	3	1		1	2	1	3	2	2	1	1				2(10)		LQFP48
	GD32F103R4T6	108	16K	6K	up to 51	2	1		1	2	1	2	1	1	1	1				2(16)		LQFP64
	GD32F103R6T6	108	32K	10K	up to 51	2	1		1	2	1	2	1	1	1	1				2(16)		LQFP64
	GD32F103R8T6	108	64K	20K	up to 51	3	1		1	2	1	3	2	2	1	1				2(16)		LQFP64
	GD32F103RBT6	108	128K	20K	up to 51	3	1		1	2	1	3	2	2	1	1				2(16)		LQFP64
	GD32F103RCT6	108	256K	48K	up to 51	4	2	2	1	2	1	5	2	3	1	1	2	1		3(16)	2	LQFP64
	GD32F103RDT6	108	384K	64K	up to 51	4	2	2	1	2	1	5	2	3	1	1	2	1		3(16)	2	LQFP64
	GD32F103RET6	108	512K	64K	up to 51	4	2	2	1	2	1	5	2	3	1	1	2	1		3(16)	2	LQFP64
	GD32F103RFT6	108	768K	96K	up to 51	10	2	2	1	2	1	5	2	3	1	1	2	1		3(16)	2	LQFP64
	GD32F103RGT6	108	1024K	96K	up to 51	10	2	2	1	2	1	5	2	3	1	1	2	1		3(16)	2	LQFP64
	GD32F103RIT6	108	2048K	96K	up to 51	10	2	2	1	2	1	5	2	3	1	1	2	1		3(16)	2	LQFP64
	GD32F103RKT6	108	3072K	96K	up to 51	10	2	2	1	2	1	5	2	3	1	1	2	1		3(16)	2	LQFP64
	GD32F103V8T6	108	64K	20K	up to 80	3	1		1	2	1	3	2	2	1	1			•	2(16)		LQFP100
	GD32F103VBT6	108	128K	20K	up to 80	3	1		1	2	1	3	2	2	1	1			•	2(16)		LQFP100
	GD32F103VCT6	108	256K	48K	up to 80	4	2	2	1	2	1	5	2	3	1	1	2	1	•	3(16)	2	LQFP100
	GD32F103VDT6	108	384K	64K	up to 80	4	2	2	1	2	1	5	2	3	1	1	2	1	•	3(16)	2	LQFP100
	GD32F103VET6	108	512K	64K	up to 80	4	2	2	1	2	1	5	2	3	1	1	2	1	•	3(16)	2	LQFP100
	GD32F103VFT6	108	768K	96K	up to 80	10	2	2	1	2	1	5	2	3	1	1	2	1	•	3(16)	2	LQFP100
	GD32F103VGT6	108	1024K	96K	up to 80	10	2	2	1	2	1	5	2	3	1	1	2	1	•	3(16)	2	LQFP100
	GD32F103VIT6	108	2048K	96K	up to 80	10	2	2	1	2	1	5	2	3	1	1	2	1	•	3(16)	2	LQFP100
	GD32F103VKT6	108	3072K	96K	up to 80	10	2	2	1	2	1	5	2	3	1	1	2	1	•	3(16)	2	LQFP100
	GD32F103ZCT6	108	256K	48K	up to 112	4	2	2	1	2	1	5	2	3	1	1	2	1	•	3(21)	2	LQFP144
	GD32F103ZDT6	108	384K	64K	up to 112	4	2	2	1	2	1	5	2	3	1	1	2	1	•	3(21)	2	LQFP144
GD32F103ZET6	108	512K	64K	up to 112	4	2	2	1	2	1	5	2	3	1	1	2	1	•	3(21)	2	LQFP144	
GD32F103ZFT6	108	768K	96K	up to 112	10	2	2	1	2	1	5	2	3	1	1	2	1	•	3(21)	2	LQFP144	
GD32F103ZGT6	108	1024K	96K	up to 112	10	2	2	1	2	1	5	2	3	1	1	2	1	•	3(21)	2	LQFP144	
GD32F103ZIT6	108	2048K	96K	up to 112	10	2	2	1	2	1	5	2	3	1	1	2	1	•	3(21)	2	LQFP144	
GD32F103ZKT6	108	3072K	96K	up to 112	10	2	2	1	2	1	5	2	3	1	1	2	1	•	3(21)	2	LQFP144	

GD32F1 系列

ARM® Cortex®-M3 内核 32 位通用 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)	I ² C	SPI	CAN 2.0B	USB 2.0 FS	I ² S		SDIO	Ethernet		12bit ADC Units (CHs)	12bit DAC Units	
GD32F105	GD32F105R8T6	108	64K	64K	up to 51	4	1	2	1	2	1	5	2	3	2	OTG	2					2(16)	2	LQFP64
	GD32F105RBT6	108	128K	64K	up to 51	4	1	2	1	2	1	5	2	3	2	OTG	2					2(16)	2	LQFP64
	GD32F105RCT6	108	256K	96K	up to 51	4	1	2	1	2	1	5	2	3	2	OTG	2					2(16)	2	LQFP64
	GD32F105RDT6	108	384K	96K	up to 51	4	1	2	1	2	1	5	2	3	2	OTG	2					2(16)	2	LQFP64
	GD32F105RET6	108	512K	96K	up to 51	4	1	2	1	2	1	5	2	3	2	OTG	2					2(16)	2	LQFP64
	GD32F105RFT6	108	768K	96K	up to 51	4	1	2	1	2	1	5	2	3	2	OTG	2					2(16)	2	LQFP64
	GD32F105RGT6	108	1024K	96K	up to 51	4	1	2	1	2	1	5	2	3	2	OTG	2					2(16)	2	LQFP64
	GD32F105V8T6	108	64K	64K	up to 80	4	1	2	1	2	1	5	2	3	2	OTG	2			•		2(16)	2	LQFP100
	GD32F105VBT6	108	128K	64K	up to 80	4	1	2	1	2	1	5	2	3	2	OTG	2			•		2(16)	2	LQFP100
	GD32F105VCT6	108	256K	96K	up to 80	4	1	2	1	2	1	5	2	3	2	OTG	2			•		2(16)	2	LQFP100
	GD32F105VDT6	108	384K	96K	up to 80	4	1	2	1	2	1	5	2	3	2	OTG	2			•		2(16)	2	LQFP100
	GD32F105VET6	108	512K	96K	up to 80	4	1	2	1	2	1	5	2	3	2	OTG	2			•		2(16)	2	LQFP100
	GD32F105VFT6	108	768K	96K	up to 80	4	1	2	1	2	1	5	2	3	2	OTG	2			•		2(16)	2	LQFP100
	GD32F105VGT6	108	1024K	96K	up to 80	4	1	2	1	2	1	5	2	3	2	OTG	2			•		2(16)	2	LQFP100
	GD32F105ZCT6	108	256K	96K	up to 112	4	1	2	1	2	1	5	2	3	2	OTG	2			•		2(16)	2	LQFP144
	GD32F105ZDT6	108	384K	96K	up to 112	4	1	2	1	2	1	5	2	3	2	OTG	2			•		2(16)	2	LQFP144
	GD32F107	GD32F107RBT6	108	128K	96K	up to 51	4	1	2	1	2	1	5	1	3	2	OTG	2		•			2(16)	2
GD32F107RCT6		108	256K	96K	up to 51	4	1	2	1	2	1	5	1	3	2	OTG	2		•			2(16)	2	LQFP64
GD32F107RDT6		108	384K	96K	up to 51	4	1	2	1	2	1	5	2	3	2	OTG	2		•			2(16)	2	LQFP64
GD32F107RET6		108	512K	96K	up to 51	4	1	2	1	2	1	5	2	3	2	OTG	2		•			2(16)	2	LQFP64
GD32F107RFT6		108	768K	96K	up to 51	4	1	2	1	2	1	5	2	3	2	OTG	2		•			2(16)	2	LQFP64
GD32F107RGT6		108	1024K	96K	up to 51	4	1	2	1	2	1	5	2	3	2	OTG	2		•			2(16)	2	LQFP64
GD32F107VBT6		108	128K	96K	up to 80	4	1	2	1	2	1	5	1	3	2	OTG	2		•	•		2(16)	2	LQFP100
GD32F107VCT6		108	256K	96K	up to 80	4	1	2	1	2	1	5	1	3	2	OTG	2		•	•		2(16)	2	LQFP100
GD32F107VDT6		108	384K	96K	up to 80	4	1	2	1	2	1	5	2	3	2	OTG	2		•	•		2(16)	2	LQFP100
GD32F107VET6		108	512K	96K	up to 80	4	1	2	1	2	1	5	2	3	2	OTG	2		•	•		2(16)	2	LQFP100
GD32F107VFT6		108	768K	96K	up to 80	4	1	2	1	2	1	5	2	3	2	OTG	2		•	•		2(16)	2	LQFP100
GD32F107VGT6		108	1024K	96K	up to 80	4	1	2	1	2	1	5	2	3	2	OTG	2		•	•		2(16)	2	LQFP100
GD32F107ZCT6		108	256K	96K	up to 112	4	1	2	1	2	1	5	2	3	2	OTG	2		•	•		2(16)	2	LQFP144
GD32F107ZDT6		108	384K	96K	up to 112	4	1	2	1	2	1	5	2	3	2	OTG	2		•	•		2(16)	2	LQFP144
GD32F107ZET6		108	512K	96K	up to 112	4	1	2	1	2	1	5	2	3	2	OTG	2		•	•		2(16)	2	LQFP144
GD32F107ZFT6		108	768K	96K	up to 112	4	1	2	1	2	1	5	2	3	2	OTG	2		•	•		2(16)	2	LQFP144
GD32F107ZGT6		108	1024K	96K	up to 112	4	1	2	1	2	1	5	2	3	2	OTG	2		•	•		2(16)	2	LQFP144

GD32F1 系列

ARM® Cortex®-M3 内核 32 位通用 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	I ² C	SPI	USB 2.0 FS	I ² S	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	1		1	2	1	1	1	1				1(10)		QFN28
	GD32F130G6U6TR	48	32K	4K	up to 23	1	4	1		1	2	1	2	1	1				1(10)		QFN28
	GD32F130G8U6TR	48	64K	8K	up to 23	1	5	1		1	2	1	2	2	2				1(10)		QFN28
	GD32F130K4T6	48	16K	4K	up to 27	1	4	1		1	2	1	1	1	1				1(10)		LQFP32
	GD32F130K6T6	48	32K	4K	up to 27	1	4	1		1	2	1	2	1	1				1(10)		LQFP32
	GD32F130K8T6	48	64K	8K	up to 27	1	5	1		1	2	1	2	2	2				1(10)		LQFP32
	GD32F130K4U6	48	16K	4K	up to 27	1	4	1		1	2	1	1	1	1				1(10)		QFN32
	GD32F130K6U6	48	32K	4K	up to 27	1	4	1		1	2	1	2	1	1				1(10)		QFN32
	GD32F130K8U6	48	64K	8K	up to 27	1	5	1		1	2	1	2	2	2				1(10)		QFN32
	GD32F130C4T6	48	16K	4K	up to 39	1	4	1		1	2	1	1	1	1				1(10)		LQFP48
	GD32F130C6T6	48	32K	4K	up to 39	1	4	1		1	2	1	2	1	1				1(10)		LQFP48
	GD32F130C8T6	48	64K	8K	up to 39	1	5	1		1	2	1	2	2	2				1(10)		LQFP48
GD32F130R8T6	48	64K	8K	up to 55	1	5	1		1	2	1	2	2	2				1(16)		LQFP64	
GD32F150	GD32F150G4U6TR	72	16K	4K	up to 24	1	5	1	1	1	2	1	1	1	1	1	1	1	1(10)	1	QFN28
	GD32F150G6U6TR	72	32K	6K	up to 24	1	5	1	1	1	2	1	2	1	1	1	1	1	1(10)	1	QFN28
	GD32F150G8U6TR	72	64K	8K	up to 24	1	5	1	1	1	2	1	2	2	2	1	1	1	1(10)	1	QFN28
	GD32F150K4U6	72	16K	4K	up to 27	1	5	1	1	1	2	1	1	1	1	1	1	1	1(10)	1	QFN32
	GD32F150K6U6	72	32K	6K	up to 27	1	5	1	1	1	2	1	2	1	1	1	1	1	1(10)	1	QFN32
	GD32F150K8U6	72	64K	8K	up to 27	1	5	1	1	1	2	1	2	2	2	1	1	1	1(10)	1	QFN32
	GD32F150C4T6	72	16K	4K	up to 39	1	5	1	1	1	2	1	1	1	1	1	1	1	1(10)	1	LQFP48
	GD32F150C6T6	72	32K	6K	up to 39	1	5	1	1	1	2	1	2	1	1	1	1	1	1(10)	1	LQFP48
	GD32F150C8T6	72	64K	8K	up to 39	1	5	1	1	1	2	1	2	2	2	1	1	1	1(10)	1	LQFP48
	GD32F150R4T6	72	16K	4K	up to 55	1	5	1	1	1	2	1	1	1	1	1	1	1	1(16)	1	LQFP64
	GD32F150R6T6	72	32K	6K	up to 55	1	5	1	1	1	2	1	2	1	1	1	1	1	1(16)	1	LQFP64
	GD32F150R8T6	72	64K	8K	up to 55	1	5	1	1	1	2	1	2	2	2	1	1	1	1(16)	1	LQFP64

GD30 PMU

高性能电源

- ◆ 无线基础设施
- ◆ 通信 / 网卡
- ◆ 工业应用
- ◆ 安防设备
- ◆ 物联网

电机驱动

- ◆ BLDC、BDC和步进电机
- ◆ 电动工具
- ◆ 机器人和遥控玩具
- ◆ 工业自动化
- ◆ 物联网

锂电池管理

- ◆ 锂电池充电和模拟前端监测
- ◆ 扫地机
- ◆ 航模无人机
- ◆ 能源储存
- ◆ 物联网

专用电源管理

- ◆ TWS 耳机充电盒
- ◆ 便携式健康监护设备
- ◆ 低电池电量应用
- ◆ 客户定制方案

GD30WS

电源管理产品选型

Part No.	Absolute V _{USB} (V)	Control Topology	Charging Current (A)	Load Current (A)	Charging Efficiency (%)	CV Charge Voltage (V)	Quiescent Current (μA)	LDO	Control interface	12bit ADC	Protection Features						Temperature Operating Range (°C)	Package	MPQ (PCS)	MOQ (PCS)
	Max		Max	Max	Max						Max	Short Circuit	Over Voltage	Under Voltage	Over Current	Over Temperature				
GD30WS8805EU	20	Switch-Mode	1.2	0.6	95	4.1/4.2/4.3/4.35/4.4 @0.5%	<5	3.3V/50mA	I ² C	•	•	•	•	•	•	•	-20 to +85	QFN24	490	2940
GD30WS8815EU	20	Switch-Mode	1.5	1	95	4.1/4.2/4.3/4.35/4.4 @0.5%	<5	3.3V/80mA	I ² C	•	•	•	•	•	•	•	-20 to +85	QFN24	490	2940
GD30WS8855EU	20	Switch-Mode	1.5	1	95	4.1/4.2/4.3/4.35/4.4 @0.5%	<5	3.3V/50mA	I ² C	•	•	•	•	•	•	•	-20 to +85	QFN24	490	2940

GD30DR

电机驱动产品选型

Part No.	Supply Voltage (V)		Gate Driver	Power MOSFET	Gate Driver Peak Current (A)		Control Interface	PWM Frequency (kHz)	Buck Controller	LDO	Protection Features			Temperature Operating Range (°C)	Package	MPQ (PCS)	MOQ (PCS)
	Min	Max			Source	Sink		Max			Under Voltage	Over Temperature	Fault diagnostics				
GD30DR8306KU	4.5	30	3	External	1	1.2	6xPWM	200	5V/2A	5V/40mA	•	•	•	-40 to +105	QFN32	490	2940
GD30DR8304EUTR	4.5	30	3	External	1	1.2	6xPWM	200	/	5V/40mA	•	•	•	-40 to +105	QFN24	3000	3000

Part No.	Supply Voltage (V)		Gate Driver	Power MOSFET	Drive Current (A)	Control Interface	PWM Frequency (kHz)	LDO	Protection Features	Temperature Operating Range (°C)	Package	MPQ (PCS)	MOQ (PCS)
	Min	Max					Max		Over Temperature				
GD30DR8413EUTR	4.5	30	-	Internal	3	3xPWM	50	5V/20mA	•	-40 to +125	QFN24	3000	3000
GD30DR3000WGTR-K	6.5	40	-	Internal	3.2	PWM	100	-	•	-40 to +125	ESOP8	4000	4000
GD30DR3820LPTR-K	2.5	10.8	-	Internal	1.2	PWM	200	-	•	-40 to +125	eTSSOP16	3000	3000
GD30DR3820LUTR-K	2.5	10.8	-	Internal	1.2	PWM	200	-	•	-40 to +125	QFN16	3000	3000
GD30DR3800WETR-K	0	11	-	Internal	1.8	PWM	250	-	•	-40 to +125	DFN8	3000	3000
GD30DR3801WETR-K	0	10	-	Internal	1.0	PWM	250	-	•	-40 to +125	DFN8	3000	3000

GD30BC

锂电池管理产品选型

Part No.	Series Cells	Input Operation Voltage (V)		Control Topology	Charging Current (A)	Charging Efficiency (%)	CV Charge Voltage for Per cell (V)	LDO	Power Path	Control interface	Protection Features				Temperature Operating Range (°C)	Package	MPQ (PCS)	MOQ (PCS)
		Min	Max		Max	Max					Over Voltage	Under Voltage	Over Current	Battery Over/Under Temperature				
GD30BC2501LRTR	4,6	18	32	Buck	5	95	4.1/4.2/4.3/4.35@1%	3.3V/25mA	NO	I ² C	•	•	•	•	-40 to +85	QFN16	3000	3000
GD30BC2502LRTR	2,3,5	9	32	Buck	5	95	4.1/4.2/4.3/4.35@1%	3.3V/25mA	NO	I ² C	•	•	•	•	-40 to +85	QFN16	3000	3000
GD30BC2416FUTR	1	4.4	5.5	Buck(Charging)-Boost(Discharging)	1.5	97	4.1/4.2/4.3/4.35/4.4@0.5%	3.3V/50mA	YES	I ² C	•	•	•	-	-20 to +85	QFN20	3000	3000

GD30BC

锂电池管理产品选型

Part No.	Absolute V_{USB} (V)	Control Topology	Charging Current (A)	Load Current (A)	CV Charge Voltage (V)	Quiescent Current (μ A)	LDO	Control interface	Protection Features						Temperature Operating Range ($^{\circ}$ C)	Package	MPQ (PCS)	MOQ (PCS)
	Max								Short Circuit	Over Voltage	Under Voltage	Over Current	Over Temperature	Under Temperature				
GD30WS8662DYTR	35	Linear-Mode	8~456mA (8mA/step)	0.4~3.2A (0.2A/step)	3.6~4.545 (15mV/step) @0.5%	<0.4	3.3V/50mA	I ² C	•	•	•	•	•	•	-40 to +85	WLCSP9	3000	3000

Part No.	Input Operation Voltage (V)		MAX Output Current (A)	Over Voltage Protection (V)		Internal switch ON resistance (m Ω)	Quiescent Current (μ A)	Protection Features			Temperature Operating Range ($^{\circ}$ C)	Package	MPQ (PCS)	MOQ (PCS)
	Min	Max		Min	Max			Over Current	Over Current	Over Temperature				
GD30SP2200WFTR	2.5	30	3	4	15	50	100	•	•	•	-40 to +85	DFN8L	3000	3000

GD30LD

高精度、低噪声LDO选型

Part No.	V_{IN} (V)		V_{OUT} (V)		Output Current (A)	Dropout Voltage @ with BIAS (mV)	PSRR (db)	Output Voltage Noise (μ VRMS)		Ground Current (mA)	Protection Features			Temperature Operating Range ($^{\circ}$ C)	Package	MPQ (PCS)	MOQ (PCS)
	With BIAS	Without BIAS	Pin-selectable	Set by a Resistor Divider				Max	0.8V Output		5V Output	Current Limiting	Over Temperature				
	GD30LD3300FUTR	1.1~6.5	1.4~6.5	0.5~2.075	0.5~5.2	3	180	42@10kHz	5.9	9.8	3	•	•	•	-40 to +125	QFN20	3000
GD30LD3301FUTR	1.1~6.5	1.4~6.5	0.8~3.95	0.8~5.2	3	180	42@10kHz	5.9	9.8	3	•	•	•	-40 to +125	QFN20	3000	3000
GD30LD3137WETR	1.1~6.5	1.4~6.5	-	0.8~5.5	1.2	70	40@500kHz	4.4	7.7	3	•	•	•	-40 to +125	DFN8	3000	3000
GD30LD1003FUTY-I	1.1~6.5	1.4~6.5	0.8~3.95	0.8~5.2	2	125	39@500kHz	5.9	9.8	3	•	•	•	-40 to +125	QFN20	490	2940
GD30LD1030MUTR-I	1.1~6.5	1.4~6.5	0.5~2.075	0.5~5.2	3	180	39@500kHz	5.9	9.8	3	•	•	•	-40 to +125	QFN12	3000	3000

Part No.	V_{IN} (V)	V_{OUT} (V)		Output Current (A)	Dropout Voltage @2A (mV)	PSRR (db)	Ground Current (mA)	Protection Features			Temperature Operating Range ($^{\circ}$ C)	Package	MPQ (PCS)	MOQ (PCS)
		Pin-selectable	Set by a Resistor Divider					Max	Current Limiting	Over Temperature				
GD30LD1000WGTR-I	1.4~6.5	-	0.5~5.2	2	300	39@ 500 KHz	3	•	•	•	-40 to +125	SOP8	4000	4000
GD30LD1000NBTR-I	1.4~6.5	-	0.5~5.2	2	300	39@ 500 KHz	3	•	•	•	-40 to +125	TO263	3000	3000
GD30LD1001LUTR	1.4~6.5	0.5~2.075	0.5~5.2	2	180	39@ 500 KHz	3	•	•	•	-40 to +125	QFN16	3000	3000
GD30LD1002WETR-I	1.4~6.5	-	0.5~5.2	1.2	200	39@ 500 KHz	3	•	•	•	-40 to +125	DFN8	3000	3000
GD30LD1031NBTR-I	1.4~6.5	-	0.5~5.2	3	300	-	3	•	•	•	-40 to +125	TO263	3000	3000

GD30LD

高精度、低噪声LDO选型

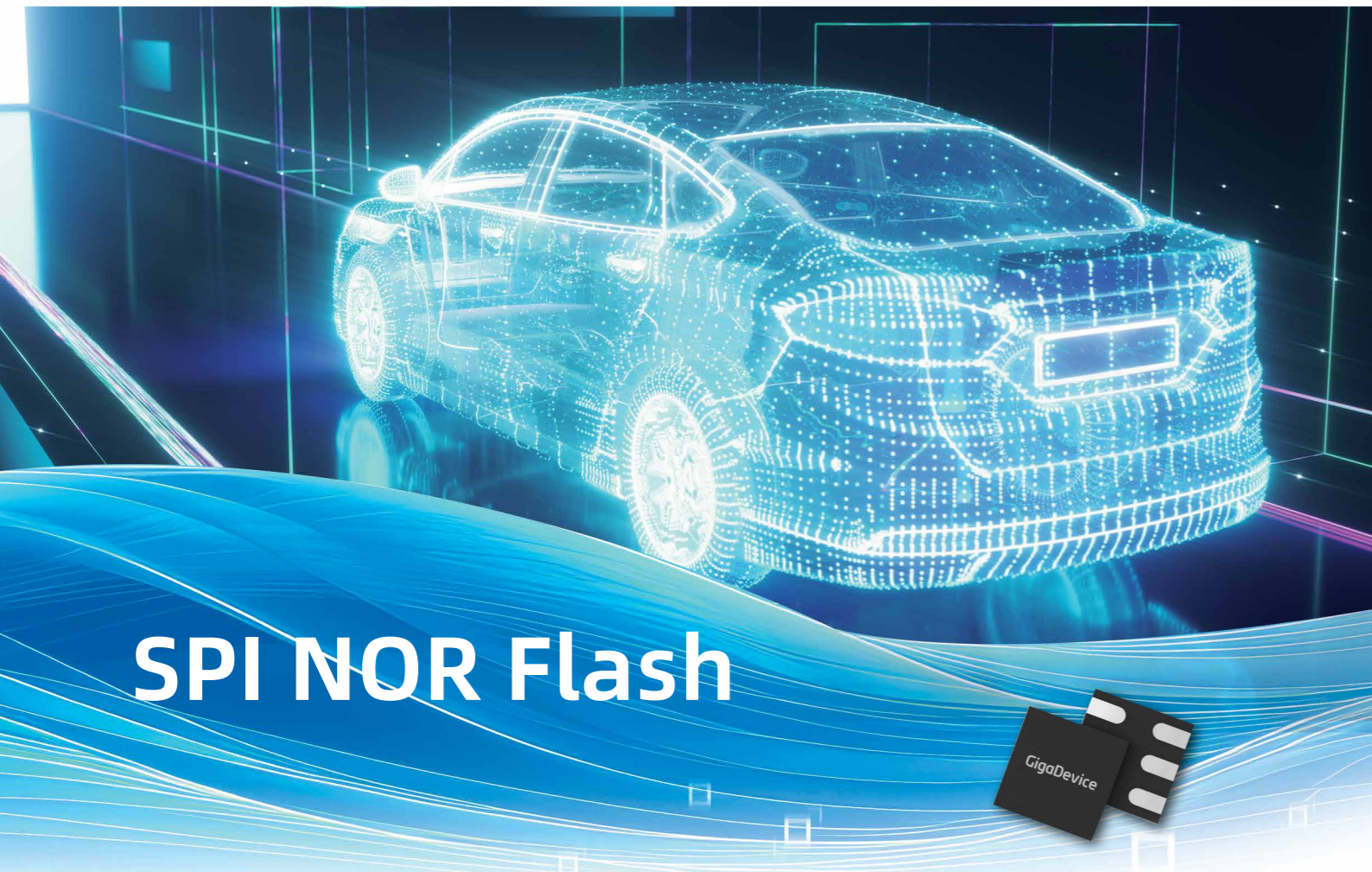
Part No.	V _{IN} (V)	V _{OUT} (V)	Output Current (A)	Dropout Voltage @0.2A (mV)	PSRR (db)	Ground Current (uA)	Shutdown Current (uA)	Protection Features		Temperature Operating Range (° C)	Package	MPQ (PCS)	MOQ (PCS)
			Max				Max	Current Limiting	Over Temperature				
GD30LD2000NSTR-C08	1.9~5.5	0.8	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	SOT235	3000	3000
GD30LD2000NSTR-C10	1.9~5.5	1	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	SOT235	3000	3000
GD30LD2000NSTR-C12	1.9~5.5	1.2	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	SOT235	3000	3000
GD30LD2000NSTR-C15	1.9~5.5	1.5	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	SOT235	3000	3000
GD30LD2000NSTR-C18	1.9~5.5	1.8	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	SOT235	3000	3000
GD30LD2000NSTR-C25	1.9~5.5	2.5	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	SOT235	3000	3000
GD30LD2000NSTR-C28	1.9~5.5	2.8	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	SOT235	3000	3000
GD30LD2000NSTR-C30	1.9~5.5	3	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	SOT235	3000	3000
GD30LD2000NSTR-C33	1.9~5.5	3.3	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	SOT235	3000	3000
GD30LD2000NSTR-C36	1.9~5.5	3.6	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	SOT235	3000	3000
GD30LD2000BSTR-C08	1.9~5.5	0.8	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	SOT233	3000	3000
GD30LD2000BSTR-C10	1.9~5.5	1	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	SOT233	3000	3000
GD30LD2000BSTR-C12	1.9~5.5	1.2	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	SOT233	3000	3000
GD30LD2000BSTR-C15	1.9~5.5	1.5	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	SOT233	3000	3000
GD30LD2000BSTR-C18	1.9~5.5	1.8	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	SOT233	3000	3000
GD30LD2000BSTR-C25	1.9~5.5	2.5	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	SOT233	3000	3000
GD30LD2000BSTR-C28	1.9~5.5	2.8	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	SOT233	3000	3000
GD30LD2000BSTR-C30	1.9~5.5	3	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	SOT233	3000	3000
GD30LD2000BSTR-C33	1.9~5.5	3.3	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	SOT233	3000	3000
GD30LD2000BSTR-C36	1.9~5.5	3.6	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	SOT233	3000	3000
GD30LD2000JETR-C08	1.9~5.5	0.8	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	DFN 1x1	10000	10000
GD30LD2000JETR-C10	1.9~5.5	1	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	DFN 1x1	10000	10000
GD30LD2000JETR-C12	1.9~5.5	1.2	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	DFN 1x1	10000	10000
GD30LD2000JETR-C15	1.9~5.5	1.5	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	DFN 1x1	10000	10000
GD30LD2000JETR-C18	1.9~5.5	1.8	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	DFN 1x1	10000	10000
GD30LD2000JETR-C25	1.9~5.5	2.5	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	DFN 1x1	10000	10000
GD30LD2000JETR-C28	1.9~5.5	2.8	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	DFN 1x1	10000	10000
GD30LD2000JETR-C30	1.9~5.5	3	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	DFN 1x1	10000	10000
GD30LD2000JETR-C33	1.9~5.5	3.3	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	DFN 1x1	10000	10000
GD30LD2000JETR-C36	1.9~5.5	3.6	0.3	180	50@1KHz	0.8	0.1	•	•	-40 to +125	DFN 1x1	10000	10000
GD30LD2010NSTR-I08	1.9~7.0	0.8	0.5	520	87@1KHz	40	0.1	•	•	-40 to +125	SOT235	3000	3000
GD30LD2010NSTR-I10	1.9~7.0	1	0.5	520	87@1KHz	40	0.1	•	•	-40 to +125	SOT235	3000	3000
GD30LD2010NSTR-I12	1.9~7.0	1.2	0.5	520	87@1KHz	40	0.1	•	•	-40 to +125	SOT235	3000	3000
GD30LD2010NSTR-I15	1.9~7.0	1.5	0.5	520	87@1KHz	40	0.1	•	•	-40 to +125	SOT235	3000	3000
GD30LD2010NSTR-I18	1.9~7.0	1.8	0.5	520	87@1KHz	40	0.1	•	•	-40 to +125	SOT235	3000	3000
GD30LD2010NSTR-I25	1.9~7.0	2.5	0.5	520	87@1KHz	40	0.1	•	•	-40 to +125	SOT235	3000	3000
GD30LD2010NSTR-I28	1.9~7.0	2.8	0.5	520	87@1KHz	40	0.1	•	•	-40 to +125	SOT235	3000	3000
GD30LD2010NSTR-I30	1.9~7.0	3	0.5	520	87@1KHz	40	0.1	•	•	-40 to +125	SOT235	3000	3000
GD30LD2010NSTR-I33	1.9~7.0	3.3	0.5	520	87@1KHz	40	0.1	•	•	-40 to +125	SOT235	3000	3000
GD30LD2010NSTR-I36	1.9~7.0	3.6	0.5	520	87@1KHz	40	0.1	•	•	-40 to +125	SOT235	3000	3000
GD30LD2010NSTR-I50	1.9~7.0	5	0.5	520	87@1KHz	40	0.1	•	•	-40 to +125	SOT235	3000	3000
GD30LD2010JETR-I08	1.9~7.0	0.8	0.5	520	87@1KHz	40	0.1	•	•	-40 to +125	DFN 1x1	10000	10000
GD30LD2010JETR-I10	1.9~7.0	1	0.5	520	87@1KHz	40	0.1	•	•	-40 to +125	DFN 1x1	10000	10000
GD30LD2010JETR-I12	1.9~7.0	1.2	0.5	520	87@1KHz	40	0.1	•	•	-40 to +125	DFN 1x1	10000	10000
GD30LD2010JETR-I15	1.9~7.0	1.5	0.5	520	87@1KHz	40	0.1	•	•	-40 to +125	DFN 1x1	10000	10000
GD30LD2010JETR-I18	1.9~7.0	1.8	0.5	520	87@1KHz	40	0.1	•	•	-40 to +125	DFN 1x1	10000	10000
GD30LD2010JETR-I25	1.9~7.0	2.5	0.5	520	87@1KHz	40	0.1	•	•	-40 to +125	DFN 1x1	10000	10000
GD30LD2010JETR-I28	1.9~7.0	2.8	0.5	520	87@1KHz	40	0.1	•	•	-40 to +125	DFN 1x1	10000	10000
GD30LD2010JETR-I30	1.9~7.0	3	0.5	520	87@1KHz	40	0.1	•	•	-40 to +125	DFN 1x1	10000	10000
GD30LD2010JETR-I33	1.9~7.0	3.3	0.5	520	87@1KHz	40	0.1	•	•	-40 to +125	DFN 1x1	10000	10000
GD30LD2010JETR-I36	1.9~7.0	3.6	0.5	520	87@1KHz	40	0.1	•	•	-40 to +125	DFN 1x1	10000	10000
GD30LD2010JETR-I50	1.9~7.0	5	0.5	520	87@1KHz	40	0.1	•	•	-40 to +125	DFN 1x1	10000	10000

GD30DC

通用DC/DC产品选型

Part No.	Function	Supply Voltage (V)		Output Current (A)	Ron (mΩ)		Reference Voltage (V)	Quiescent current (uA)	Switching Frequency (MHz)	100% Duty Cycle	Protection Features				Note	Temperature Operating Range (° C)	Package	MPQ (PCS)	MOQ (PCS)
		Min	Max	Max	HSFET	LSFET	Typ	Typ	Typ		Over Voltage	Over Current	Hiccup Short Circuit	Over Temperature					
GD30DC1101NSTR-I	BUCK	2.5	5.5	1	250	200	0.6	25	1.5	•	•	•	•	•	SS/Comp./Current Mode	-40 to +85	SOT235	3000	3000
GD30DC1101SSTR-I	BUCK	2.5	5.5	1	250	200	0.6	25	1.5	•	•	•	•	•	SS/Comp./Current Mode	-40 to +85	SOT236	3000	3000
GD30DC1105NSTR-I	BUCK	2.5	5.5	1.2	250	200	0.6	25	1.5	•	•	•	•	•	SS/Comp./Current Mode	-40 to +85	SOT235	3000	3000
GD30DC1103NSTR-I	BUCK	2.5	6	1	200	150	0.6	25	1.5	•	•	•	•	•	SS/Comp./Current Mode	-40 to +85	SOT235	3000	3000
GD30DC1103SOTR-I	BUCK	2.5	6	1	200	150	0.6	25	1.5	•	•	•	•	•	SS/Comp./Current Mode	-40 to +85	SOT563	5000	5000
GD30DC1106NSTR-I	BUCK	2.5	6	1.2	200	150	0.6	25	1.5	•	•	•	•	•	SS/Comp./Current Mode	-40 to +85	SOT235	3000	3000
GD30DC1104NSTR-I	BUCK	2.7	5.75	2	65	60	0.6	35	1.5	•	•	•	•	•	SS/Comp./Current Mode	-40 to +85	SOT235	3000	3000
GD30DC1300SOTR-I	BUCK	4.5	18	3	80	45	0.8	250	0.8	-	•	•	•	•	ACOT	-40 to +85	SOT563	5000	5000
GD30DC1300SSTR-I	BUCK	4.5	18	3	80	45	0.8	250	0.8	-	•	•	•	•	ACOT	-40 to +85	SOT236	3000	3000
GD30DC1301SOTR-I	BUCK	4.5	18	2	110	60	0.8	250	0.8	-	•	•	•	•	ACOT	-40 to +85	SOT563	5000	5000
GD30DC1301SSTR-I	BUCK	4.5	18	2	110	60	0.8	250	0.8	-	•	•	•	•	ACOT	-40 to +85	SOT236	3000	3000

Part No.	Function	Supply Voltage (V)		Output Voltage (V)	Limit Current (A)	Power Mos (mΩ)	Reference Voltage (V)	Quiescent current (uA)	Switching Frequency (MHz)	Protection Features			Note	Temperature Operating Range (° C)	Package	MPQ (PCS)	MOQ (PCS)
		Min	Max	Max	Max		Typ	Typ	Typ	Under Voltage	Over Current	Over Temperature					
GD30DC2300SSTR-N	BOOST	2.5	18	30	3	150	0.6	110	1	•	•	•	Current Mode	-20 to +85	SOT236	3000	3000
GD30DC2301SSTR-N	BOOST	2.5	18	36	2	150	0.2	110	1	•	•	•	Current Mode	-20 to +85	SOT236	3000	3000



SPI NOR Flash

SPI NOR Flash 特性

1.8V

- ◆ 单电源供电
 - 电压范围: 1.65V~2.0V
- ◆ 双电源供电
 - 核心电压范围: 1.65V~2.0V
 - IO 电压范围: 1.10V~1.30V
- ◆ 高速时钟频率
 - 数据读取频率高达 200MHz*
 - 双通道数据吞吐量高达 332Mbit/s
 - 四通道数据吞吐量高达 664Mbit/s
 - QPI 数据吞吐量高达 664Mbit/s
 - 双沿传输四通道数据吞吐量高达 1600Mbit/s
 - 双沿传输八通道数据吞吐量高达 3200Mbit/s
 - 连续读取 8/16/32/64-Byte
- ◆ 灵活的存储结构
 - 扇区大小: 4K-Byte
 - 块大小: 32/64K-Byte

3V

- ◆ 单电源供电
 - 电压范围: 2.7V~3.6V
- ◆ 高速时钟频率
 - 数据读取频率高达 200MHz*
 - 双通道数据吞吐量高达 332Mbit/s
 - 四通道数据吞吐量高达 664Mbit/s
 - 双沿传输四通道数据吞吐量高达 1600Mbit/s
 - 双沿传输八通道数据吞吐量高达 3200Mbit/s
 - 连续读取 8/16/32/64-Byte
- ◆ 灵活的存储结构
 - 扇区大小: 4K-Byte
 - 块大小: 32/64K-Byte

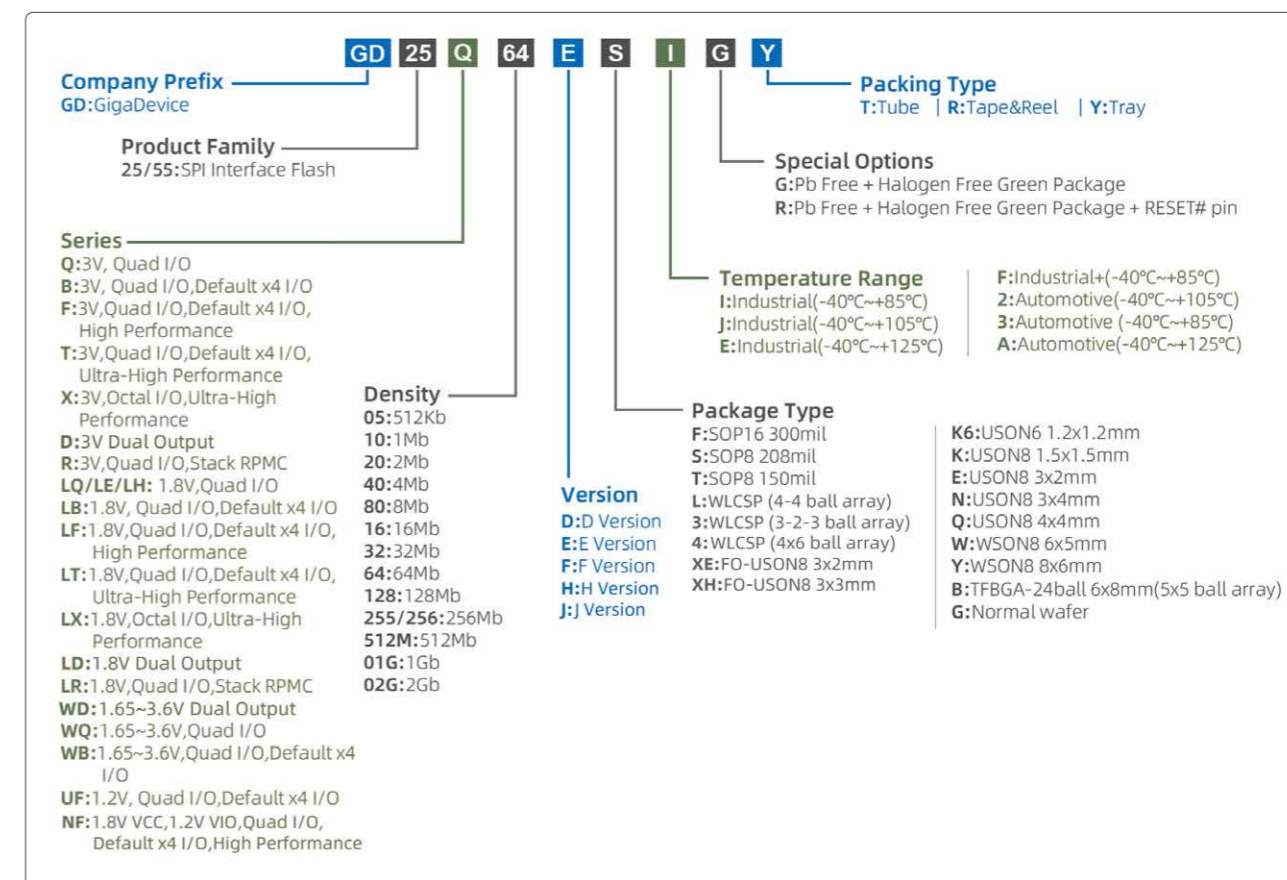
1.65V~3.6V

- ◆ 单电源供电
 - 电压范围: 1.65V~3.6V
- ◆ 高速时钟频率
 - 数据读取频率高达 104MHz*
 - 双通道数据吞吐量高达 208Mbit/s
 - 四通道数据吞吐量高达 416Mbit/s
 - 连续读取 8/16/32/64-Byte
- ◆ 灵活的存储结构
 - 扇区大小: 4K-Byte
 - 块大小: 32/64K-Byte

1.2V

- ◆ 单电源供电
 - 电压范围: 1.14V~1.26V
- ◆ 高速时钟频率
 - 数据读取频率高达 120MHz*
 - 双通道数据吞吐量高达 240Mbit/s
 - 四通道数据吞吐量高达 480Mbit/s
 - QPI 数据吞吐量高达 480Mbit/s
 - 双沿传输四通道数据吞吐量高达 640Mbit/s
 - 连续读取 8/16/32/64-Byte
- ◆ 灵活的存储结构
 - 扇区大小: 4K-Byte
 - 块大小: 32/64K-Byte

SPI NOR Flash 产品型号命名规则



SPI NOR Flash 产品特性

Flash Voltage	1.8V										3V						1.65V~3.6V			1.2V	
Family	LQ	LB	LF	LE	LX	LT	LR	LH	LD	NF	Q	B	F	X	T	R	D	WQ	WD	WB	UF
Part No.	xxD xxE xxH	xxE xxF	xxE xxF xxJ	xxE	xxE xxJ	xxE xxJ	xxE xxF	xxE	xxE	xxF	xxE xxH	xxE xxF xxH	xxF	xxE	xxE	xxE xxF	xxE	xxE xxH	xxE	xxE	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)					•										•						
H/W Reset (RESET# Pin)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S/W Reset	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
H/W Write Protection (WP# Pin)	•	*	•	•	•	•	•	•	•	•	•	*	•	•	•	*	•	•	•	•	•
S/W Write Protection	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Volatile & Non-volatile Status Register Bit	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Output Driver Strength	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Security Registers with OTP Locks	•	•	•	•	•	•	•	•	•	*	•	•	•	•	•	•	*	•	•	•	•
SFDP Register	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DTR		*	•	•	•	•	•	•	•	•		*	•	•	•	•	•				
ECC			*		•	•							*		•	•					

* 该特性仅部分产品适用。

SPI NOR Flash 产品选型

Part No.	Density	Voltage	Organization	I/O Bus	Frequency (MHz)	Package
GD25LD05E	512Kb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual Output	50MHz(x1) 40MHz(x2)	SOP8 150mil
GD25LD10E	1Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual Output	50MHz(x1) 40MHz(x2)	SOP8 150mil
GD25LQ20E	2Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil USON8 1.5x1.5mm USON8 3x2mm
GD25LE20E	2Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil USON8 1.5x1.5mm USON8 3x2mm
GD25LD20E	2Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual Output	50MHz(x1) 40MHz(x2)	SOP8 150mil USON6 1.2x1.2mm USON8 1.5x1.5mm USON8 3x2mm
GD25LQ40E	4Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil USON8 1.5x1.5mm USON8 3x2mm
GD25LE40E	4Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil USON8 1.5x1.5mm USON8 3x2mm
GD25LD40E	4Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual Output	50MHz(x1) 40MHz(x2)	SOP8 150mil USON6 1.2x1.2mm USON8 1.5x1.5mm USON8 3x2mm
GD25LH40E	4Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1,x2,x4)	USON8 3x2mm
GD25LE80E	8Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	USON8 3x2mm WLCSP (4-4 ball array)
GD25LF80E	8Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP8 150mil SOP8 208mil USON8 3x2mm
GD25LH80E	8Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	USON8 3x2mm
GD25LQ80E	8Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil USON8 3x2mm
GD25LD80E	8Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual Output	50MHz(x1) 40MHz(x2)	SOP8 150mil SOP8 208mil USON8 1.5x1.5mm USON8 3x2mm
GD25LB16E	16Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil USON8 3x2mm
GD25LE16E	16Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	USON8 3x2mm WLCSP (3-2-3 ball array)
GD25LF16E	16Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP8 150mil SOP8 208mil USON8 3x2mm USON8 3x4mm
GD25LH16E	16Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil USON8 3x2mm USON8 3x4mm
GD25LQ16E	16Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil USON8 3x2mm USON8 3x4mm
GD25LB32E	32Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil USON8 3x2mm USON8 3x4mm
GD25LE32E	32Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	USON8 3x2mm USON8 3x4mm WLCSP (4-4 ball array) WLCSP (3-2-3 ball array)
GD25LF32E	32Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP8 150mil SOP8 208mil USON8 3x2mm USON8 3x4mm
GD25LH32E	32Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 208mil USON8 3x2mm USON8 3x4mm
GD25LQ32E	32Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil USON8 3x2mm USON8 3x4mm
GD25LB64E	64Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil USON8 3x4mm USON8 4x4mm WSON8 6x5mm
GD25LE64E	64Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil FO-USON8 3x2mm USON8 3x4mm USON8 4x4mm WSON8 6x5mm WLCSP (4-4 ball array)
GD25LF64E	64Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP8 150mil SOP8 208mil FO-USON8 3x2mm USON8 3x4mm USON8 4x4mm WSON8 6x5mm
GD25LQ64E	64Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil USON8 3x4mm USON8 4x4mm WSON8 6x5mm
GD25LR64E	64Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	SOP8 208mil WSON8 6x5mm
GD25LR128E	128Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	SOP8 208mil WSON8 6x5mm WSON8 8x6mm
GD25LE128E	128Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 208mil FO-USON8 3x3mm USON8 4x4mm WSON8 6x5mm WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array) WLCSP (4-4 ball array)
GD25LB128E	128Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 208mil SOP16 300mil USON8 4x4mm WSON8 6x5mm WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD25LF128E	128Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP8 208mil USON8 4x4mm WSON8 6x5mm TFBGA24 8x6mm (5x5 ball array)
GD25LQ128E	128Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1,x2,x4)	SOP8 208mil SOP16 300mil USON8 4x4mm WSON8 6x5mm WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD25LT128J	128Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Quad	166MHz(x1,x4) 200MHz(DTR)	SOP8 208mil SOP16 300mil FO-USON8 (3x3mm) USON8 (4x4mm) WSON8 (6x5mm) WSON8 (8x6mm) TFBGA-24ball (5x5 Ball array)
GD25LX128J	128Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Octal	200MHz(x1,x8) 200MHz(DTR)	SOP16 300mil TFBGA24 8x6mm (5x5 ball array)
GD25LE255E	256Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	WSON8 6x5mm WLCSP (4-4 ball array)
GD25LF255E	256Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	WSON8 6x5mm WLCSP (4-4 ball array)
GD25LQ255E	256Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP16 300mil WSON8 6x5mm WSON8 8x6mm
GD25LQ256H	256Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 208mil SOP16 300mil WSON8 6x5mm WSON8 8x6mm
GD25LB256E	256Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Quad	166MHz(x1, x4) 104MHz(DTR)	SOP16 300mil WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD25LT256E	256Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Quad	166MHz(x1, x4) 200MHz(DTR)	SOP16 300mil WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD25LX256E	256Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Octal	200MHz(x1, x8) 200MHz(DTR)	SOP16 300mil TFBGA24 8x6mm (5x5 ball array) WLCSP (4x6 ball array)
GD25LB256F	256Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP16 300mil WSON8 6x5mm WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD25LF256F	256Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP16 300mil WSON8 6x5mm WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD25LR256F	256Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	WSON8 6x5mm WSON8 8x6mm
GD25LB512ME	512Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Quad	166MHz(x1, x4) 90MHz(DTR)	SOP16 300mil WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array) WLCSP (3-2-3 ball array)
GD25LT512ME	512Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Quad	166MHz(x1, x4) 200MHz(DTR)	SOP16 300mil WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD25LX512ME	512Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Octal	200MHz(x1, x8) 200MHz(DTR)	SOP16 300mil TFBGA24 8x6mm (5x5 ball array) WLCSP (4x6 ball array)
GD25LB512MF	512Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP16 300mil WSON8 8x6mm 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)
GD25LR512MF	512Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	SOP16 300mil WSON8 8x6mm
GD55LB01GE	1Gb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Quad	166MHz(x1, x4) 90MHz(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)	SOP16 300mil WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD55LX01GE	1Gb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Octal	200MHz(x1, x8) 200MHz(DTR)	SOP16 300mil TFBGA24 8x6mm (5x5 ball array)
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)
GD55LB02GE	2Gb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Quad	166MHz(x1, x4) 90MHz(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	200MHz(x1, x8) 200MHz(DTR)	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)	SOP16 300mil TFBGA24 8x6mm (5x5 ball array)

Part No.	Density	Voltage	Organization	I/O Bus	Frequency (MHz)	Package
GD25D05E	512Kb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual Output	104MHz(x1) 80MHz(x2)	SOP8 150mil USON6 1.2x1.2mm USON8 1.5x1.5mm USON8 3x2mm
GD25D10E	1Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual Output	104MHz(x1) 80MHz(x2)	SOP8 150mil USON6 1.2x1.2mm USON8 1.5x1.5mm USON8 3x2mm
GD25Q20E	2Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil USON8 3x2mm
GD25D20E	2Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual Output	104MHz(x1) 80MHz(x2)	SOP8 150mil SOP8 208mil USON8 1.5x1.5mm USON8 3x2mm
GD25Q40E	4Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil USON8 1.5x1.5mm USON8 3x2mm
GD25D40E	4Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual Output	104MHz(x1) 80MHz(x2)	SOP8 150mil SOP8 208mil USON8 1.5x1.5mm USON8 3x2mm
GD25Q80E	8Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil USON8 3x2mm
GD25D80E	8Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual Output	104MHz(x1) 80MHz(x2)	SOP8 150mil SOP8 208mil USON8 1.5x1.5mm USON8 3x2mm
GD25B16E	16Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil USON8 3x2mm USON8 3x4mm
GD25Q16E	16Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil USON8 3x2mm USON8 3x4mm
GD25B32E	32Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil USON8 3x2mm USON8 3x4mm
GD25Q32E	32Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil USON8 3x2mm USON8 3x4mm
GD25B64E	64Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 208mil USON8 3x4mm USON8 4x4mm WSON8 6x5mm
GD25R64E	64Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	SOP8 208mil WSON8 6x5mm WSON8 8x6mm
GD25F64F	64Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP8 208mil USON8 4x4mm WSON8 6x5mm TFBGA24 8x6mm(5x5 ball array)
GD25Q64E	64Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil FO-USON8 3x2mm USON8 3x4mm USON8 4x4mm WSON8 6x5mm
GD25B128E	128Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 208mil USON8 4x4mm WSON8 6x5mm WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD25B128H	128Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4)	SOP8 208mil USON8 4x4mm WSON8 6x5mm WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD25Q128E	128Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 208mil SOP16 300mil USON8 4x4mm WSON8 6x5mm WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD25Q128H	128Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 208mil USON8 4x4mm WSON8 6x5mm WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD25R128E	128Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	SOP8 208mil WSON8 6x5mm WSON8 8x6mm
GD25F128F	128Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP8 208mil SOP16 300mil WSON8 6x5mm TFBGA24 8x6mm (5x5 ball array)
GD25R256E	256Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	SOP16 300mil WSON8 6x5mm WSON8 8x6mm
GD25B256F	256Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	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)
GD25Q256E	256Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP16 300mil WSON8 6x5mm WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD25T512ME	512Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Quad	166MHz(x1, x4) 200MHz(DTR)	SOP16 300mil WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD25X512ME	512Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Octal	200MHz(x1, x8) 200MHz(DTR)	SOP16 300mil TFBGA24 8x6mm (5x5 ball array)
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
GD55B01GE	1Gb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Quad	133MHz(x1, x4) 90MHz(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)	SOP16 300mil WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD55X01GE	1Gb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Octal	200MHz(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)
GD55B02GE	2Gb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Quad	133MHz(x1, x4) 90MHz(DTR)	TFBGA24 8x6mm (5x5 ball array)
GD55T02GE	2Gb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Quad	166MHz(x1, x4) 200MHz(DTR)	TFBGA24 8x6mm (5x5 ball array)
GD55X02GE	2Gb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Octal	200MHz(x1, x8) 200MHz(DTR)	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)	SOP16 300mil TFBGA24 8x6mm (5x5 ball array)
GD25WD05E	512Kb	1.65V-3.6V	4KB / 32KB / 64KB	Single / Dual Output	104MHz(x1) 80MHz(x2)	SOP8 150mil USON6 1.2x1.2mm USON8 3x2mm
GD25WD10E	1Mb	1.65V-3.6V	4KB / 32KB / 64KB	Single / Dual Output	104MHz(x1) 80MHz(x2)	SOP8 150mil USON6 1.2x1.2mm USON8 1.5x1.5mm USON8 3x2mm
GD25WQ20E	2Mb	1.65V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	SOP8 150mil USON8 3x2mm
GD25WD20E	2Mb	1.65V-3.6V	4KB / 32KB / 64KB	Single / Dual Output	104MHz(x1) 80MHz(x2)	SOP8 150mil USON6 1.2x1.2mm USON8 1.5x1.5mm USON8 3x2mm
GD25WQ40E	4Mb	1.65V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	SOP8 150mil USON8 3x2mm
GD25WD40E	4Mb	1.65V-3.6V	4KB / 32KB / 64KB	Single / Dual Output	104MHz(x1) 80MHz(x2)	SOP8 150mil USON6 1.2x1.2mm USON8 1.5x1.5mm USON8 3x2mm
GD25WQ80E	8Mb	1.65V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil USON8 3x2mm
GD25WD80E	8Mb	1.65V-3.6V	4KB / 32KB / 64KB	Single / Dual Output	104MHz(x1) 80MHz(x2)	SOP8 150mil SOP8 208mil USON8 1.5x1.5mm USON8 3x2mm
GD25WQ16E	16Mb	1.65V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil USON8 3x2mm USON8 3x4mm
GD25WQ32E	32Mb	1.65V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil USON8 3x2mm USON8 3x4mm
GD25WQ64E	64Mb	1.65V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	SOP8 208mil USON8 3x4mm USON8 4x4mm WSON8 6x5mm WLCSP (3-2-3 ball array)
GD25WQ128E	128Mb	1.65V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	SOP8 208mil SOP16 300mil USON8 4x4mm WSON8 6x5mm
GD25WQ128H	128Mb	1.65V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	SOP8 208mil USON8 4x4mm WSON8 6x5mm
GD25WB256E	256Mb	1.65V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	SOP16 300mil WSON8 6x5mm WSON8 8x6mm
GD25UF64E	64Mb	1.14V-1.26V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4) 80MHz(DTR)	SOP8 208mil USON8 3x4mm USON8 4x4mm WLCSP(4-4 ball array)
GD25UF128E	128Mb	1.14V-1.26V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4) 80MHz(DTR)	SOP8 208mil USON8 4x4mm WSON8 6x5mm 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)
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)

产品系列 1.8V

LQ/LE/LH: Quad I/O
 LB: Quad I/O, Default x4 I/O
 LF: Quad I/O, Default x4 I/O, High Performance
 LT: Quad I/O, Default x4 I/O, Ultra-High Performance
 LX: Octal I/O, Ultra-High Performance
 LD: Dual Output
 LR: Quad I/O, Stack RPMC
 NF: 1.2V VIO, Quad I/O, Default x4 I/O, High Performance

3V

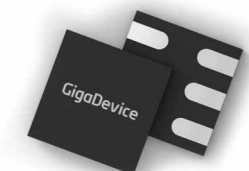
Q: Quad I/O
 B: Quad I/O, Default x4 I/O
 F: Quad I/O, Default x4 I/O, High Performance
 T: Quad I/O, Default x4 I/O, Ultra-High Performance
 X: Octal I/O, Ultra-High Performance
 D: Dual Output
 R: Quad I/O, Stack RPMC

1.65V~3.6V

WD: Dual Output
 WQ: Quad I/O
 WB: Quad I/O, Default x4 I/O

1.2V

UF: Quad I/O, Default x4 I/O



SPI NOR Flash 车规产品选型

Part No.	Density	Voltage	Oragnization	I/O Bus	Frequency (MHz)	Packages
GD25LQ20E	2Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	USON8 3x2mm
GD25LQ40E	4Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil USON8 3x2mm
GD25LQ80E	8Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil USON8 3x2mm
GD25LF80E	8Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	USON8 3x2mm
GD25LQ16E	16Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil USON8 3x2mm
GD25LF16E	16Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP8 150mil SOP8 208mil USON8 3x2mm
GD25LQ32E	32Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil USON8 3x2mm USON8 3x4mm WSON8 6x5mm
GD25LF32E	32Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP8 150mil SOP8 208mil USON8 3x2mm USON8 3x4mm
GD25LQ64E	64Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil USON8 3x4mm USON8 4x4mm WSON8 6x5mm TFBGA24 8x6mm (5x5 ball array)
GD25LF64E	64Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP8 150mil SOP8 208mil USON8 3x4mm USON8 4x4mm WSON8 6x5mm
GD25LQ128D	128Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4)	SOP8 208mil WSON8 6x5mm TFBGA24 8x6mm (5x5 ball array)
GD25LF128J	128Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP8 208mil USON8 4x4mm WSON8 6x5mm WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD25LT256E	256Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Quad	166MHz(x1, x4) 200MHz(DTR)	SOP16 300mil WSON8 6x5mm WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD25LX256E	256Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Octal	200MHz(x1, x8) 200MHz(DTR)	SOP16 300mil TFBGA24 8x6mm (5x5 ball array)
GD25LF256F	256Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP16 300mil WSON8 6x5mm WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD25LT512ME	512Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Quad	166MHz(x1, x4) 200MHz(DTR)	SOP16 300mil WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD25LX512ME	512Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Octal	200MHz(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)
GD55LT01GE	1Gb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Quad	166MHz(x1, x4) 200MHz(DTR)	SOP16 300mil WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD55LX01GE	1Gb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Octal	200MHz(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)
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	200MHz(x1, x8) 200MHz(DTR)	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)
GD25Q20E	2Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil USON8 3x2mm
GD25Q40E	4Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil USON8 3x2mm
GD25Q80E	8Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil USON8 3x2mm
GD25B16E	16Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil USON8 3x2mm USON8 3x4mm
GD25B32E	32Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	SOP8 150mil SOP8 208mil USON8 3x2mm USON8 3x4mm
GD25F64F	64Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	166MHz(x1, x2, x4) 104MHz(DTR)	SOP8 208mil USON8 4x4mm WSON8 6x5mm
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)	SOP16 300mil WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD25X512ME	512Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Octal	200MHz(x1, x8) 200MHz(DTR)	SOP16 300mil 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)	SOP16 300mil WSON8 8x6mm TFBGA24 8x6mm (5x5 ball array)
GD55X01GE	1Gb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Octal	200MHz(x1, x8) 200MHz(DTR)	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)	SOP16 300mil TFBGA24 8x6mm (5x5 ball array)
GD55T02GE	2Gb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Quad	166MHz(x1, x4) 200MHz(DTR)	TFBGA24 8x6mm (5x5 ball array)
GD55X02GE	2Gb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Octal	200MHz(x1, x8) 200MHz(DTR)	TFBGA24 8x6mm (5x5 ball array)

产品系列

1.8V

LQ: Quad I/O
 LT: Quad I/O, Default x4 I/O, Ultra-High Performance
 LF: Quad I/O, Default x4 I/O, High Performance

LX: Octal I/O, Ultra-High Performance

3V

Q: Quad I/O
 B: Quad I/O, Default x4 I/O
 F: Quad I/O, Default x4 I/O, High Performance

T: Quad I/O, Default x4 I/O, Ultra-High Performance
 X: Octal I/O, Ultra-High Performance





SPI NAND Flash

SPI NAND Flash 特性

3V

- ◆ 供电电压: 2.7V~3.6V
- ◆ 高速时钟频率
 - 数据读取频率高达 133MHz
 - 四通道数据吞吐量高达 532Mbit/s
- ◆ 灵活的存储结构
 - 2K-Byte 页读取写入大小
 - 128K-Byte 块擦除大小
- ◆ 增强访问性能
 - 提供 2K-Byte Cache 空间随机读取
- ◆ SPI NAND 先进特性
 - 内置 ECC 算法
 - 支持 DTR

1.8V

- ◆ 供电电压: 1.7V~2.0V
- ◆ 高速时钟频率
 - 数据读取频率高达 104MHz
 - 四通道数据吞吐量高达 416Mbit/s
- ◆ 灵活的存储结构
 - 2K-Byte 页读取写入大小
 - 128K-Byte 块擦除大小
- ◆ 增强访问性能
 - 提供 2K-Byte Cache 空间随机读取
- ◆ SPI NAND 先进特性
 - 内置 ECC 算法
 - 支持 DTR
 - 支持 Deep Power Down

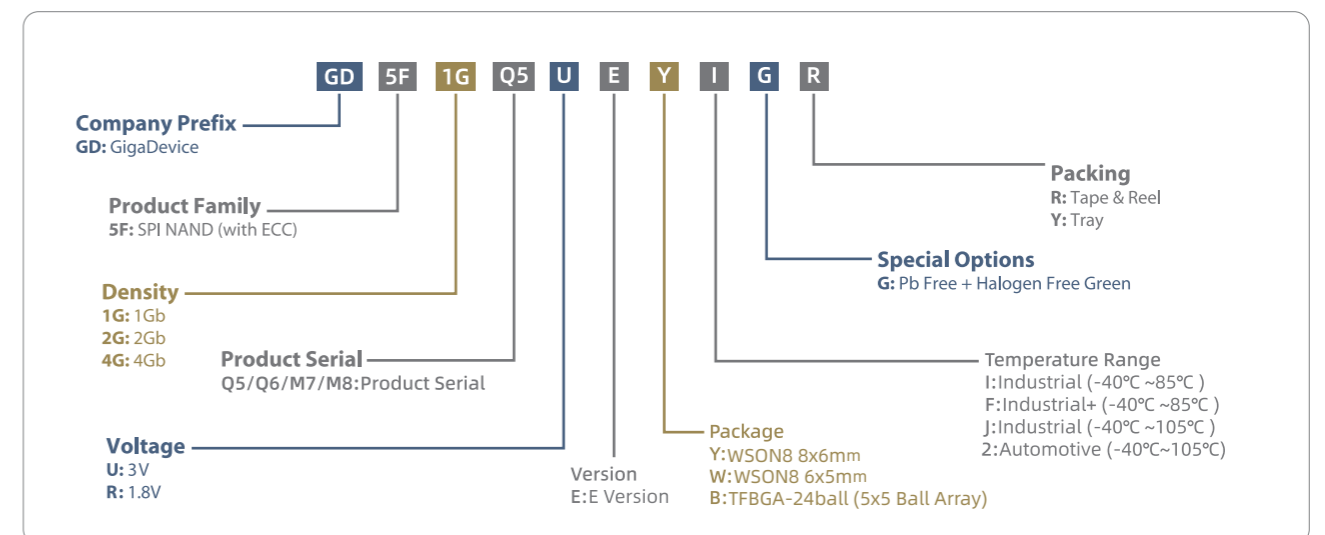
SPI NAND Flash 产品选型

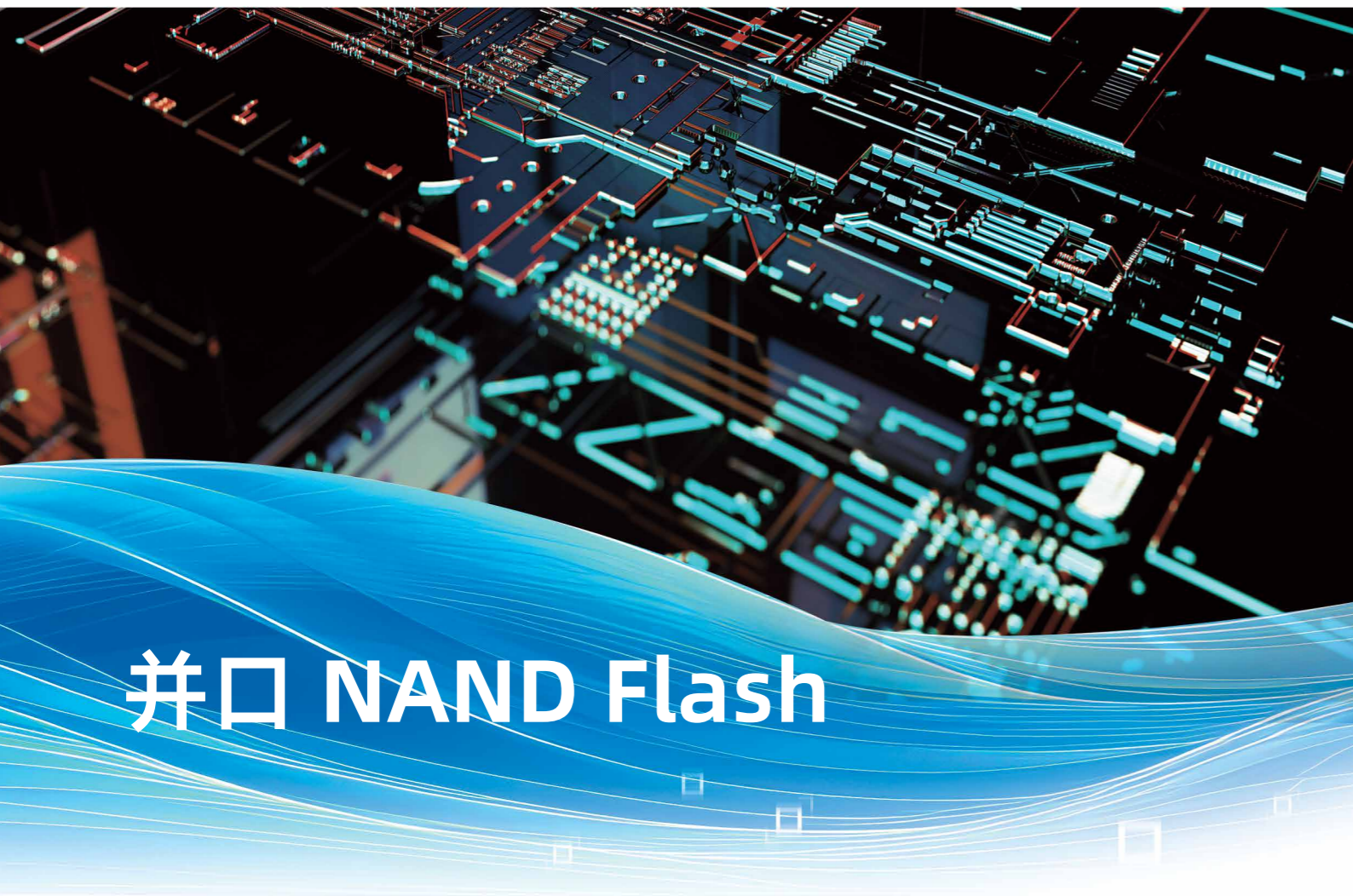
Part No.	Density	Voltage	Frequency	I/O Bus	Page Size	Package
GD5F1GQ5UE	1Gb	2.7V-3.6V	133MHz	x1/x2/x4	2KB	WSON8 8x6mm
GD5F1GM7UE	1Gb	2.7V-3.6V	133MHz	x1/x2/x4	2KB	WSON8 8x6mm/WSON8 6x5mm/TFBGA24 8x6mm(5x5 ball array)
GD5F2GQ5UE	2Gb	2.7V-3.6V	104MHz	x1/x2/x4	2KB	WSON8 8x6mm
GD5F2GM7UE	2Gb	2.7V-3.6V	133MHz	x1/x2/x4	2KB	WSON8 8x6mm/WSON8 6x5mm/TFBGA24 8x6mm(5x5 ball array)
GD5F4GQ6UE	4Gb	2.7V-3.6V	104MHz	x1/x2/x4	2KB	WSON8 8x6mm
GD5F4GM8UE	4Gb	2.7V-3.6V	133MHz	x1/x2/x4	2KB	WSON8 8x6mm/WSON8 6x5mm/TFBGA24 8x6mm(5x5 ball array)
GD5F1GQ5RE	1Gb	1.7V-2.0V	104MHz	x1/x2/x4	2KB	WSON8 8x6mm
GD5F1GM7RE	1Gb	1.7V-2.0V	104MHz	x1/x2/x4	2KB	WSON8 8x6mm/WSON8 6x5mm/TFBGA24 8x6mm(5x5 ball array)
GD5F2GQ5RE	2Gb	1.7V-2.0V	80MHz	x1/x2/x4	2KB	WSON8 8x6mm
GD5F2GM7RE	2Gb	1.7V-2.0V	104MHz	x1/x2/x4	2KB	WSON8 8x6mm/WSON8 6x5mm/TFBGA24 8x6mm(5x5 ball array)
GD5F4GQ6RE	4Gb	1.7V-2.0V	80MHz	x1/x2/x4	2KB	WSON8 8x6mm
GD5F4GM8RE	4Gb	1.7V-2.0V	104MHz	x1/x2/x4	2KB	WSON8 8x6mm/WSON8 6x5mm/TFBGA24 8x6mm(5x5 ball array)

SPI NAND Flash 车规产品选型

Part No.	Density	Voltage	Frequency	I/O Bus	Page Size	Package
GD5F1GQ5UE	1Gb	2.7V-3.6V	133MHz	x1/x2/x4	2KB	WSON8 8x6mm
GD5F2GQ5UE	2Gb	2.7V-3.6V	104MHz	x1/x2/x4	2KB	WSON8 8x6mm
GD5F4GQ6UE	4Gb	2.7V-3.6V	104MHz	x1/x2/x4	2KB	WSON8 8x6mm
GD5F1GQ5RE	1Gb	1.7V-2.0V	104MHz	x1/x2/x4	2KB	WSON8 8x6mm
GD5F2GQ5RE	2Gb	1.7V-2.0V	80MHz	x1/x2/x4	2KB	WSON8 8x6mm
GD5F4GQ6RE	4Gb	1.7V-2.0V	80MHz	x1/x2/x4	2KB	WSON8 8x6mm

SPI NAND Flash 产品型号命名规则





井口 NAND Flash

Parallel NAND Flash 特性

3V

- ◆ 供电电压: 2.7V~3.6V
- ◆ 容量: 1Gb/2Gb/4Gb/8Gb
- ◆ 页大小: 2KB+64B / 2KB+128B
- ◆ 页读取时间: 25us
- ◆ I/O 传输速度: 12ns/20ns/25ns
- ◆ 总线宽度: x8/x16
- ◆ 温度等级: 工业级 -40~85°C / 工业级 -40~105°C
- ◆ 符合 ONFI1.0 标准

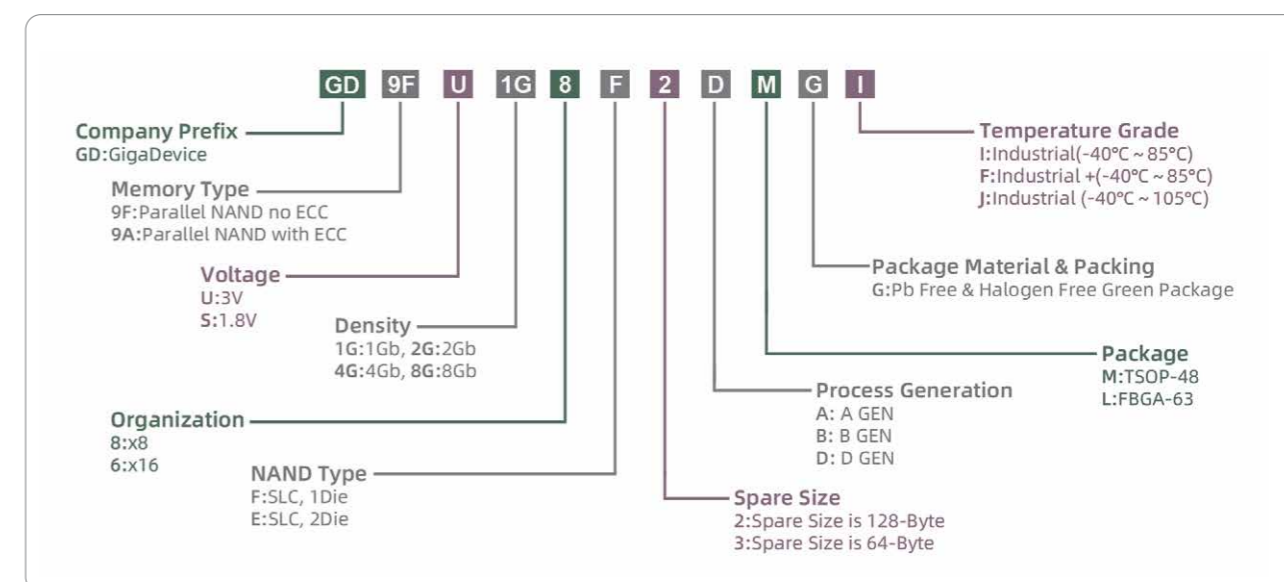
1.8V

- ◆ 供电电压: 1.7V~1.95V
- ◆ 容量: 1Gb/2Gb/4Gb/8Gb
- ◆ 页大小: 2KB+64B / 2KB+128B
- ◆ 页读取时间: 25us
- ◆ I/O 传输速度: 20ns/25ns/45ns
- ◆ 总线宽度: x8/x16
- ◆ 温度等级: 工业级 -40~85°C / 工业级 -40~105°C
- ◆ 符合 ONFI1.0 标准

Parallel NAND Flash 产品选型

Part No.	Density	Voltage	Sequential Access Time	I/O Bus	Page Size	ECC Requirement	Package
GD9FU1GxF3A	1Gb	2.7V-3.6V	25ns	x8/x16	2KB+64B	4bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9FU1G8F2D	1Gb	2.7V-3.6V	12ns	x8	2KB+128B	8bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9FU2GxF3A	2Gb	2.7V-3.6V	20ns	x8/x16	2KB+64B	4bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9FU2GxF2A	2Gb	2.7V-3.6V	20ns	x8/x16	2KB+128B	4bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9FU4GxF3A	4Gb	2.7V-3.6V	20ns	x8/x16	2KB+64B	4bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9FU8GxE3A	8Gb	2.7V-3.6V	20ns	x8/x16	2KB+64B	4bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9AU2GxF3A	2Gb	2.7V-3.6V	20ns	x8/x16	2KB+64B	Internal 4bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9AU4GxF3A	4Gb	2.7V-3.6V	20ns	x8/x16	2KB+64B	Internal 4bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9AU8GxE3A	8Gb	2.7V-3.6V	20ns	x8/x16	2KB+64B	Internal 4bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9FS1GxF3A	1Gb	1.7V-1.95V	45ns	x8/x16	2KB+64B	4bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9FS1G8F2D	1Gb	1.7V-1.95V	20ns	x8	2KB+128B	8bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9FS2GxF3A	2Gb	1.7V-1.95V	25ns	x8/x16	2KB+64B	4bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9FS2GxF2A	2Gb	1.7V-1.95V	25ns	x8/x16	2KB+128B	4bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9FS4GxF3A	4Gb	1.7V-1.95V	25ns	x8/x16	2KB+64B	4bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9FS8GxE3A	8Gb	1.7V-1.95V	25ns	x8/x16	2KB+64B	4bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9AS2GxF3A	2Gb	1.7V-1.95V	25ns	x8/x16	2KB+64B	Internal 4bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9AS4GxF3A	4Gb	1.7V-1.95V	25ns	x8/x16	2KB+64B	Internal 4bit/512B	TSOP48 20x12mm/BGA63 9x11mm
GD9AS8GxE3A	8Gb	1.7V-1.95V	25ns	x8/x16	2KB+64B	Internal 4bit/512B	TSOP48 20x12mm/BGA63 9x11mm

Parallel NAND Flash 产品型号命名规则



Flash 产品 封装形式

备注:

1. 提供的长度、宽度、间距数值为标准值。厚度数值为最大值。
2. 图片仅供参考, 请以所选型号的数据手册为主。

T		SOP8 150mil	
		长度	4.90mm
		宽度	6.00mm
		厚度 (最大)	1.75mm
		间距	1.27mm

K		USON8 1.5x1.5mm	
		长度	1.50mm
		宽度	1.50mm
		厚度 (最大)	0.50mm
		间距	0.40mm

N		USON8 3x4mm	
		长度	3.00mm
		宽度	4.00mm
		厚度 (最大)	0.60mm
		间距	0.80mm


L		WLCSP	
		取决于具体产品	

S		SOP8 208mil	
		长度	5.23mm
		宽度	7.90mm
		厚度 (最大)	2.16mm
		间距	1.27mm

XE		FO-USON8 3x2mm	
		长度	3.00mm
		宽度	2.00mm
		厚度 (最大)	0.40mm
		间距	0.50mm

Q		USON8 4x4mm	
		长度	4.00mm
		宽度	4.00mm
		厚度 (最大)	0.50mm
		间距	0.80mm


B		TFBGA-24ball 6x8mm (5x5ball array)	
		长度	6.00mm
		宽度	8.00mm
		厚度 (最大)	1.20mm
		间距	1.00mm

F		SOP16 300mil	
		长度	10.30mm
		宽度	10.35mm
		厚度 (最大)	2.65mm
		间距	1.27mm

E		USON8 3x2mm	
		长度	3.00mm
		宽度	2.00mm
		厚度 (最大)	0.50mm
		间距	0.50mm

W		WSN8 6x5mm	
		长度	6.00mm
		宽度	5.00mm
		厚度 (最大)	0.80mm
		间距	1.27mm

L		FBGA63	
		长度	9.00mm
		宽度	11.0mm
		厚度 (最大)	1.00mm
		间距	0.80mm

K6		USON6 1.2x1.2mm	
		长度	1.20mm
		宽度	1.20mm
		厚度 (最大)	0.40mm
		间距	0.40mm

XH		FO-USON8 3x3mm	
		长度	3.00mm
		宽度	3.00mm
		厚度 (最大)	0.40mm
		间距	0.80mm

Y		WSN8 8x6mm	
		长度	8.00mm
		宽度	6.00mm
		厚度 (最大)	0.80mm
		间距	1.27mm

M		TSOP48	
		长度	20.00mm
		宽度	12.00mm
		厚度 (最大)	1.20mm
		间距	0.50mm



电容触控芯片

电容触控芯片特性

- ◆ 极强的抗 RF, LCD 和电源干扰能力
- ◆ 同时探测多达 10 个触摸点
- ◆ 面板厚度: 可支持最厚达 2.5mm 玻璃盖板, 可支持最厚达 1.2mm 塑料盖板
- ◆ I2C 兼容从属模式, 400KHz
- ◆ I/O 接口兼容 1.8/3.3 V

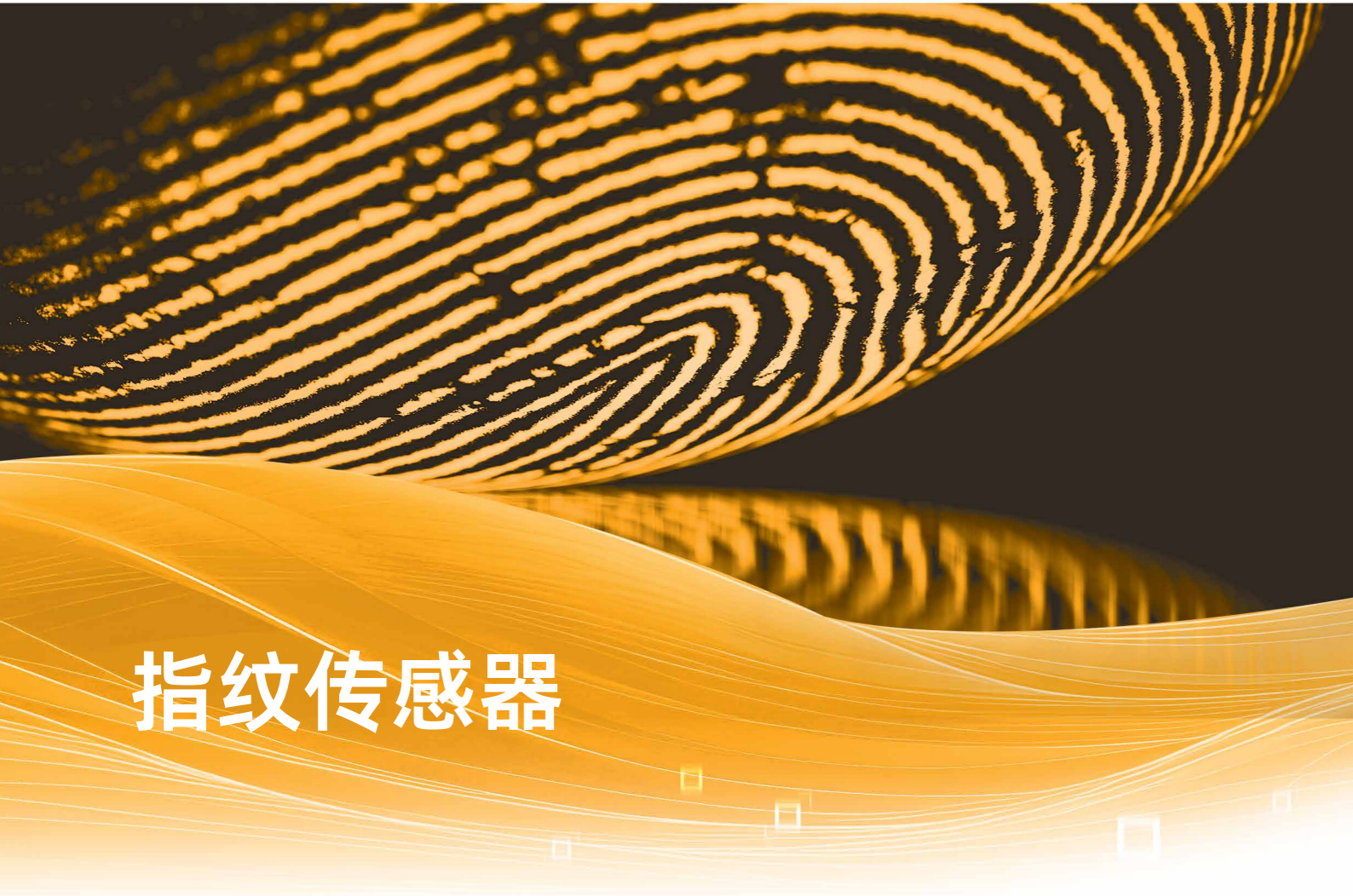
手机触控芯片产品选型

Item	GSL1691	GSL2681	GSL915	GSL2338
Number of channels	18TX, 12RX	23TX, 12RX	26TX, 14RX	40 RX
Multi-touch points	5 points	5 points	5 points	2 points
Panel dimension	up to 7"	up to 7"	up to 7"	up to 5.5"
Wake-up gestures	Yes	Yes	Yes	Yes
TP compatible mode	Tx line Floating	Tx line Floating	GPIO(9 mode) + Tx line Floating	Rx line Floating
Panel dimension and pixel	5.0Inch(960*540) 5.0Inch(1280*720) 5.3Inch(800*480) 5.3Inch(960*540) 5.7Inch(1280*720) 6.0Inch(960*540) 6.0Inch(1280*720) 7Inch(800*480) 7Inch(1024*600)	5.0Inch(960*540) 5.0Inch(1280*720) 5.3Inch(800*480) 5.3Inch(960*540) 5.7Inch(1280*720) 6.0Inch(960*540) 6.0Inch(1280*720) 7Inch(800*480) 7Inch(1024*600)	5.0Inch(960*540) 5.0Inch(1280*720) 5.3Inch(800*480) 5.3Inch(960*540) 5.7Inch(1280*720) 6.0Inch(960*540) 6.0Inch(1280*720) 7Inch(800*480) 7Inch(1024*600)	5.0Inch(960*540) 5.0Inch(1280*720) 5.3Inch(800*480) 5.3Inch(960*540) 5.5Inch(1280*720)
Value proposition	Support single layer and multi-touch, high cost effectiveness	Support single layer and multi-touch, high performance	Support single layer and multi-touch, high performance	Self-capacitance, high cost effectiveness
Sensor profile	5*5*0.8mm	6*6*0.8mm	6*6*0.8mm	5*5*0.55mm
Package	QFN40	QFN48	QFN52	QFN48
High channel loading resistance support	Yes	Yes	Yes	Yes
Sensor pattern	OGS, SITO, DITO	OGS, SITO, DITO	OGS, SITO, DITO	SITO (duel segmentation)
Process support	1. Photolithography process 2. Laser process 3. Printing process	1. Photolithography process 2. Laser process 3. Printing process	1. Photolithography process 2. Laser process 3. Printing process	Printing process
Voltage	2.8V/3.0V/3.3V	2.8V/3.0V/3.3V	2.8V/3.0V/3.3V	2.8V/3.0V/3.3V
Communication	I2C	I2C	I2C	I2C

平板触控芯片产品选型

Item	GSL1680	GSL1686	GSL2681	GSL3670	GSL3676	GSL3680	GSL3692	GSL5680
Number of channels	16TX, 10RX	16TX, 10RX	23TX, 12RX	26TX, 14RX	28TX, 18RX	31TX, 20RX	32TX, 24RX	40TX, 32RX
Multi-touch Points	5~10 point	5~10 point	5~10 point	5~10 point	5~10 point	5~10 point	5~10 point	5~10 point
Panel dimension	up to 7"	up to 7"	up to 8"	up to 10.1"	up to 10.1"	up to 13.5"	up to 13.5"	up to 15.6"
Wake-up gestures	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TP compatible mode	GPIO(2 modes)+ Tx line floating	GPIO(2 modes)+ Tx line floating	Tx line floating	GPIO(9 modes)+ Tx line floating	Tx line floating	GPIO(8 modes)+ Tx line floating	GPIO(6 modes)+ Tx line floating	GPIO(9 modes)+ Tx line floating
Panel dimension and pixel	7Inch(800*480) 7Inch(1024*600) 8Inch(800*600)	7Inch(800*480) 7Inch(1024*600) 8Inch(800*600)	7Inch(1024*600) 7Inch(1280*800) 7.85Inch(1024*768) 8Inch(800*600) 8Inch(1024*768)	7Inch(1280*800) 7.85Inch(1024*768) 7.85Inch(1280*800) 8Inch(1024*768) 8Inch(1280*800) 9Inch(800*480) 9Inch(1024*600) 9Inch(1024*768) 9Inch(1280*800) 9.7Inch(800*480) 10.1Inch(1024*768) 10.1Inch(1366*768)	7Inch(1280*800) 7.85Inch(1024*768) 7.85Inch(1280*800) 8Inch(1024*768) 8Inch(1280*800) 9Inch(800*480) 9Inch(1024*600) 9Inch(1024*768) 9Inch(1280*800) 9.7Inch(800*480) 10.1Inch(1024*768) 10.1Inch(1366*768)	7Inch(1280*800) 7.85Inch(1024*768) 7.85Inch(1280*800) 8Inch(1024*768) 8Inch(1280*800) 9Inch(800*480) 9Inch(1024*600) 9Inch(1024*768) 9Inch(1280*800) 9.7Inch(800*480) 10.1Inch(1024*768) 10.1Inch(1366*768) customer requirement	7Inch(1280*800) 7.85Inch(1024*768) 7.85Inch(1280*800) 8Inch(1024*768) 8Inch(1280*800) 9Inch(800*480) 9Inch(1024*600) 9Inch(1024*768) 9Inch(1280*800) 9.7Inch(800*480) 10.1Inch(1024*768) 10.1Inch(1366*768) customer requirement	7Inch(1280*800) 7.85Inch(1024*768) 7.85Inch(1280*800) 8Inch(1024*768) 8Inch(1280*800) 9Inch(800*480) 9Inch(1024*600) 9Inch(1024*768) 9Inch(1280*800) 9.7Inch(800*480) 10.1Inch(1024*768) 10.1Inch(1366*768) customer requirement
Sensor profile	5*5*0.8mm	5*5*0.8mm	6*6*0.8mm	6*6*0.8mm	7*7*0.8mm	8*8*0.8mm	8*8*0.8mm	10*10*0.8mm
Package	QFN40	QFN40	QFN48	QFN52	QFN56	QFN68	QFN68	QFN88
Value proposition	Support single layer and multi-touch, high cost effectiveness	Support single layer and multi-touch, high cost effectiveness, compatible with GSL1680	Support single layer and multi-touch, high cost effectiveness	Support single layer and multi-touch, high cost effectiveness	Support single layer and multi-touch, high cost effectiveness	Support single layer and multi-touch, big panel size	Support single layer and multi-touch, big panel size	Support single layer and multi-touch, big panel size
High channel loading resistance support	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sensor pattern	DITO	OGS, SITO, DITO	OGS, SITO, DITO	OGS, SITO, DITO	OGS, SITO, DITO	OGS, SITO, DITO	OGS, SITO, DITO	DITO
Process support	1. Photolithography process 2. Laser process 3. Printing process	1. Photolithography process 2. Laser process 3. Printing process	1. Photolithography process 2. Laser process 3. Printing process	1. Photolithography process 2. Laser process 3. Printing process	1. Photolithography process 2. Laser process 3. Printing process	1. Photolithography process 2. Laser process 3. Printing process	1. Photolithography process 2. Laser process 3. Printing process	1. Photolithography process 2. Laser process 3. Printing process
Voltage	2.8V/3.0V/3.3V	2.8V/3.0V/3.3V	2.8V/3.0V/3.3V	2.8V/3.0V/3.3V	2.8V/3.0V/3.3V	2.8V/3.0V/3.3V	2.8V/3.0V/3.3V	2.8V/3.0V/3.3V
Communication	I2C	I2C	I2C	I2C	I2C	I2C	I2C	I2C





指纹传感器

电容指纹传感器特性

- ◆ 支持圆形 / 方形 / 长条形等各种形状
- ◆ 支持不同直径的圆, 不同长度的方形和长条形, 尤其有超窄尺寸
- ◆ 支持放置在智能手机正面 / 背面 / 侧边等不同位置
- ◆ 支持不同表面处理工艺, 如哑光 / 高光 / 陶瓷盖板 / 玻璃盖板等
- ◆ 高灵敏度设计, 高信噪比设计, 可获取高清晰度的指纹图像
- ◆ 图像是 8bit 精度, 256 阶灰阶
- ◆ 支持标准 SPI 接口
- ◆ 图像分辨率高达 508DPI
- ◆ 自适应校准: 可根据不同指纹自动调整传感器配置
- ◆ 适配模式 / 特征点多种识别算法
- ◆ 无需金属环即可获得高清晰度的指纹图像
- ◆ FRR < 2% @ FAR 1 / 50000

电学特性

- ◆ 电源电压 (AVDD): 2.8V~3.6V
- ◆ 输入 / 输出端口电压 (VDDIO): 1.8V~AVDD
- ◆ 功耗:
 - Image scan mode (扫描帧率 > 20 F/s 或自定义): 8.5mA (可配置)
 - Sleep: 100µA (典型值)
 - Deep sleep mode: 30~100µA

可靠性

- ◆ 传感器 ESD 性能
 - 空气放电: ±15.0 kV
 - 接触放电: ±8.0 kV
- ◆ 传感器 Latch-up 性能: ±400.0mA

电容指纹识别传感器选型

Part No.	Type	Position	LGA Size / Square	LGA Size / Round	Sensing Size	Pixel Array
GSL6157N	Matte / Glossy Coating	Side-Mounted	14.3*2.4mm		8 x 1.8mm	160 x 36
GSL6159N	Matte / Glossy Coating	Side-Mounted	13.5*2.12mm		8 x 1.6mm	160 x 32
GSL6157R	Matte / Glossy Coating	Curved Side-Mounted	14.3*2.4mm		8 x 1.8mm	160 x 36
GSL6191N	Matte / Glossy Coating	Side-Mounted	14.3*2.4 ~ 13.5*2.12		6.6 x 1.6mm	132 x 32
GSL6192	Matte / Glossy Coating	Side-Mounted	13.5*1.8		7.8 x 1.3mm	180 x 30
GSL6193	Matte / Glossy Coating	Side-Mounted	14.3*2.4 ~ 13.5*2.12		5.9 x 1.6mm	118 x 32
GSL6150N	Matte / Glossy Coating	Back-Mounted	Max:12x12mm Min:7.5x7.5mm	Max:φ12mm Min:φ8.5mm	4.0 x 3.2mm	80 x 64
GSL6135N	Matte / Glossy Coating	Back-Mounted	Max:12x12mm Min:7.5x7.5mm	Max:φ12 Min:φ8.5	3.2 x 3.2mm	64 x 64
GSL6182GS1	Matte / Glossy Coating	Smart door lock	Max:15x15mm Min:12.5x12.5mm	Max:φ15mm Min:φ12.5mm	5.7 x 6.6mm	128 x 112
GSL6186	Matte / Glossy Coating	Smart door lock	Max:13x13mm Min:10.5x10.5mm	Max:φ13mm Min:φ10.5mm	6.4 x 3.2mm	128 x 64
GSL6186C1	Matte / Glossy Coating	PC	Max:13x13mm Min:10.5x10.5mm	Max:φ13mm Min:φ10.5mm	4.0 x 3.2mm	80 x 64

光学按压式指纹识别传感器特性

- ◆ 屏内指纹识别, 支持 OLED 软屏和硬屏
- ◆ FRR ≤ 1.5% @ FAR ≤ 1 / 50,000
- ◆ Enroll times ≤ 12 次
- ◆ 360 度均可识别



OLED 屏下光学指纹传感器

- ◆ 定制化像素电路及工艺设计, 以应用于低光照屏下指纹
- ◆ 领先的单芯片架构
- ◆ 定制化镜头设计, 与定制像素搭配, 获取高清晰度指纹图像
- ◆ 支持无 FLASH
- ◆ 首家在屏下指纹商用 CSP 方案

OLED 屏下光学指纹传感器选型

Part. No.	Finger Touch Size	Pixel Array
GSL7000A	6.0 x 6.0 mm	320 x 320
GSL7001A	6.0 x 6.0 mm	250 x 250
GSL7002A	7.5 x 6.8 mm	200 x 180



DDR3L

产品特点

- ◆ 存储容量: 1Gb/2Gb/4Gb
- ◆ 数据接口: x8/x16 可选
- ◆ 数据速率: 最高可达 2133Mbps
- ◆ 温度范围: 0~95°C / -40~95°C
- ◆ 应用领域: 网络通信、电视、安防监控、机顶盒、智慧家庭、工业、车载影音等诸多领域
- ◆ 覆盖设计、流片、到封测、验证的全流程

DDR3L 商规

Part No.	Density	Organization	Speed	Voltage	Operating Temp.	Package
GDP0BFLM-CB	1Gb	x16	1866Mbps	1.35/1.5V	0~95°C	96-FBGA
GDP1BFLM-CB	2Gb	x16	1866Mbps	1.35/1.5V	0~95°C	96-FBGA
GDP1BFLM-CA	2Gb	x16	2133Mbps	1.35/1.5V	0~95°C	96-FBGA
GDP1BFLA-CB	2Gb	x16	1866Mbps	1.35/1.5V	0~95°C	96-FBGA
GDP1BFLA-CA	2Gb	x16	2133Mbps	1.35/1.5V	0~95°C	96-FBGA
GDP2A8LM-CB	4Gb	x8	1866Mbps	1.35/1.5V	0~95°C	78-FBGA
GDP2A8LM-CA	4Gb	x8	2133Mbps	1.35/1.5V	0~95°C	78-FBGA
GDP2BFLM-CB	4Gb	x16	1866Mbps	1.35/1.5V	0~95°C	96-FBGA
GDP2BFLM-CA	4Gb	x16	2133Mbps	1.35/1.5V	0~95°C	96-FBGA

DDR3L 工规

Part No.	Density	Organization	Speed	Voltage	Operating Temp.	Package
GDP1BFLA-WB	2Gb	x16	1866Mbps	1.35/1.5V	-40~95°C	96-FBGA
GDP1BFLA-WA	2Gb	x16	2133Mbps	1.35/1.5V	-40~95°C	96-FBGA
GDP2A8LM-WB	4Gb	x8	1866Mbps	1.35/1.5V	-40~95°C	78-FBGA
GDP2A8LM-WA	4Gb	x8	2133Mbps	1.35/1.5V	-40~95°C	78-FBGA
GDP2BFLM-WB	4Gb	x16	1866Mbps	1.35/1.5V	-40~95°C	96-FBGA
GDP2BFLM-WA	4Gb	x16	2133Mbps	1.35/1.5V	-40~95°C	96-FBGA

DDR3L KGD/KTD

Part No.	Density	Organization	Speed	Voltage	Operating Temp.	Package
GWP1GRLA-CB	2Gb	x16	1866Mbps	1.35/1.5V	0~95°C	Normal Wafer
GWP1GRLA-CA	2Gb	x16	2133Mbps	1.35/1.5V	0~95°C	Normal Wafer
GWP1TNLA-CB	2Gb	x16	1866Mbps	1.35/1.5V	0~95°C	Normal Wafer
GWP1TNLA-CA	2Gb	x16	2133Mbps	1.35/1.5V	0~95°C	Normal Wafer
GWP2GRLM-CB	4Gb	x16	1866Mbps	1.35/1.5V	0~95°C	Normal Wafer
GWP2GRLM-CA	4Gb	x16	2133Mbps	1.35/1.5V	0~95°C	Normal Wafer
GWP2TNLM-CB	4Gb	x16	1866Mbps	1.35/1.5V	0~95°C	Normal Wafer
GWP2TNLM-CA	4Gb	x16	2133Mbps	1.35/1.5V	0~95°C	Normal Wafer



DDR4

产品特点

- ◆ 存储容量: 4Gb/8Gb
- ◆ 数据接口: x8/x16 可选
- ◆ 数据速率: 最高可达 3200Mbps
- ◆ 温度范围: 0~95°C / -40~95°C
- ◆ 应用领域: 机顶盒、电视、安防监控、网络通信、智慧家庭、工业、车载影音等诸多领域
- ◆ 覆盖设计、流片、到封测、验证的全流程

DDR4 商规

Part No.	Density	Organization	Speed	Voltage	Operating Temp.	Package
GDQ2A8AA-CE	4Gb	x8	2400Mbps	1.2V	0~95°C	78-FBGA
GDQ2A8AA-CQ	4Gb	x8	2666Mbps	1.2V	0~95°C	78-FBGA
GDQ2A8AA-CJ	4Gb	x8	3200Mbps	1.2V	0~95°C	78-FBGA
GDQ2BFAA-CE	4Gb	x16	2400Mbps	1.2V	0~95°C	96-FBGA
GDQ2BFAA-CQ	4Gb	x16	2666Mbps	1.2V	0~95°C	96-FBGA
GDQ2BFAA-CJ	4Gb	x16	3200Mbps	1.2V	0~95°C	96-FBGA
GDQ3A8AM-CQ	8Gb	x8	2666Mbps	1.2V	0~95°C	78-FBGA
GDQ3A8AM-CJ	8Gb	x8	3200Mbps	1.2V	0~95°C	78-FBGA
GDQ3BFAM-CQ	8Gb	x16	2666Mbps	1.2V	0~95°C	96-FBGA
GDQ3BFAM-CJ	8Gb	x16	3200Mbps	1.2V	0~95°C	96-FBGA

DDR4 工规

Part No.	Density	Organization	Speed	Voltage	Operating Temp.	Package
GDQ2A8AA-WQ	4Gb	x8	2666Mbps	1.2V	-40~95°C	78-FBGA
GDQ2A8AA-WJ	4Gb	x8	3200Mbps	1.2V	-40~95°C	78-FBGA
GDQ2BFAA-WQ	4Gb	x16	2666Mbps	1.2V	-40~95°C	96-FBGA
GDQ2BFAA-WJ	4Gb	x16	3200Mbps	1.2V	-40~95°C	96-FBGA
GDQ3A8AM-WQ	8Gb	x8	2666Mbps	1.2V	-40~95°C	78-FBGA
GDQ3A8AM-WJ	8Gb	x8	3200Mbps	1.2V	-40~95°C	78-FBGA
GDQ3BFAM-WQ	8Gb	x16	2666Mbps	1.2V	-40~95°C	96-FBGA
GDQ3BFAM-WJ	8Gb	x16	3200Mbps	1.2V	-40~95°C	96-FBGA

DDR4 KGD/KTD

Part No.	Density	Organization	Speed	Voltage	Operating Temp.	Package
GWQ2GNAA-CE	4Gb	x16	2400Mbps	1.2V	0~95°C	KGD wafer
GWQ2TNAA-CE	4Gb	x16	2400Mbps	1.2V	0~95°C	KTD wafer
GWQ3GNAM-CQ	8Gb	x16	2666Mbps	1.2V	0~95°C	KGD wafer
GWQ3TNAM-CQ	8Gb	x16	2666Mbps	1.2V	0~95°C	KTD wafer
GWQ3GNAM-CJ	8Gb	x16	3200Mbps	1.2V	0~95°C	KGD wafer
GWQ3TNAM-CJ	8Gb	x16	3200Mbps	1.2V	0~95°C	KTD wafer



LPDDR4/4X

产品特点

- ◆ 存储容量: 16Gb/32Gb
- ◆ 数据接口: x32
- ◆ 数据速率: 最高可达4266Mbps
- ◆ 温度范围: -25~85° C
- ◆ 应用领域: 机顶盒、电视、安防监控、网络通信、智慧家庭、工业、车载影音等诸多领域
- ◆ 覆盖设计、流片、封测、验证的全流程

LPDDR4/4X Discrete

Part No.	Density	Organization	Speed	Voltage	Operating Temp.	Package
GDB4CBQM-MK	16Gb	x32	3733Mbps	VDD1/VDD2/VDDQ: 1.8/1.1/1.1&0.6V	-25~85°C	200-FBGA
GDB4CBQM-ML	16Gb	x32	4266Mbps	VDD1/VDD2/VDDQ: 1.8/1.1/1.1&0.6V	-25~85°C	200-FBGA
GDB5CCQM-MK	32Gb	x32	3733Mbps	VDD1/VDD2/VDDQ: 1.8/1.1/1.1&0.6V	-25~85°C	200-FBGA
GDB5CCQM-ML	32Gb	x32	4266Mbps	VDD1/VDD2/VDDQ: 1.8/1.1/1.1&0.6V	-25~85°C	200-FBGA

北京总部

北京市海淀区丰豪东路9号
中关村集成电路设计园8号楼
电话: +86-10-82881666
传真: +86-10-82881668
邮箱: info@gigadevice.com

北京市朝阳区安定路5号
城奥大厦6层
电话: +86-10-82881666
邮箱: info@gigadevice.com

上海

上海市长宁区兆益科技园区
天山路18号603室
电话: +86-21-32567770
邮箱: info@gigadevice.com

上海浦东新区张江路505号15层
电话: +86-10-20221991
邮箱: info@gigadevice.com

深圳

深圳市南山区高新南九道10号
深圳湾科技生态园10栋B座3501
电话: +86-755-83438655
邮箱: info@gigadevice.com

合肥

合肥市经济技术开发区
清华路368号
电话: +86-551-68999899
邮箱: info@gigadevice.com

西安

西安市高新区天谷八路211号
西安环普科技产业园G1幢15F
电话: +86-29-88858591
邮箱: info@gigadevice.com

成都

成都市天府新区天府四街158号OCG国际中心
C座31层
电话: +86-28-89103086
邮箱: info@gigadevice.com

苏州

苏州市工业园区东长路88号N1幢12层1202
室
电话: +86-512-87180588
邮箱: info@gigadevice.com

美国

100 Century Center Ct., Suite 120
San Jose, CA 95112, USA
Tel: +1-408-855-8336
E-mail: info@gigadevice.com

英国

Innovation House
Molly Millars Close, Wokingham
Berkshire RG41 2RX
Tel: +1-408-410-6900
E-mail: info@gigadevice.com

德国

Lindwurmstr. 114, 80337 Munich, Germany
Tel: +49-151-52494892
E-mail: info@gigadevice.com

韩国

217, Yatap Leaders Bld, 42, Jangmi-ro,
Bundang-gu, Seongnam-si
Gyeonggi-do 13496, Korea
Tel: +82-10-2636-8543
+82-10-2010-6923
E-mail: Robert@gigadevice.com

日本

DSM Shin-Yokohama building 2F,
2-6-3 Shin-Yokohama, Kohoku,
Yokohama 222-0033
Tel: +81-45-534-4102
Fax: +81-45-534-4103
E-mail: info@gigadevice.com

新加坡

229 Mountbatten Road, Mountbatten
Square #01-12, Singapore
398007
Tel: +65-9765-4231
E-mail: info@gigadevice.com



官方微信



公司官网

公司网址:
www.gigadevice.com

应用领域:
www.gigadevice.com.cn/solution

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