



PRODUCT SELECTION GUIDE

About Us

GigaDevice, established in 2005, is a leading fabless company engaged in advanced memory technology and IC solutions. The company has successfully completed the IPO at Shanghai Stock Exchange in 2016. GigaDevice provides a wide range of high performance Flash memory and 32-bit general-purpose MCU products. Gigadevice is among the companies that pioneered SPI NOR Flash memory and is currently ranked number three in the world in this market segment with more than 1 billion units shipped every year.

Since 2007, GigaDevice is ISO9001 and ISO14001 certified by SGS. GigaDevice has filed 600+ patent applications with 200+ patents granted. More than 55% employees are in research and development, which continues to differentiate our products from competitions in the market. The GigaDevice management team embodies leading semiconductor industry experience from renowned memory companies in California's Silicon Valley, Korea, and Taiwan.

GigaDevice currently produces a wide range of SPI NOR Flash, SPI NAND Flash, Parallel NOR Flash and MCU for use in embedded, consumer, and mobile communications applications. GigaDevice operates a manufacturing model based on strong relationships with: foundry, assembly, and test subcontractor partners. GigaDevice believes this well-defined fabless manufacturing model provides us with a competitive advantage over the conventional fabrication-based Integrated Device Manufacturers because the capital equipment expenditure to maintain advanced memory process technologies is beyond the market return of many IC memory market segments. The consistent investment in advanced equipment by our foundry partners and their rapid growth in 12" wafer capacity are key factors in our success over our competitors.

Welcome to Giga Device



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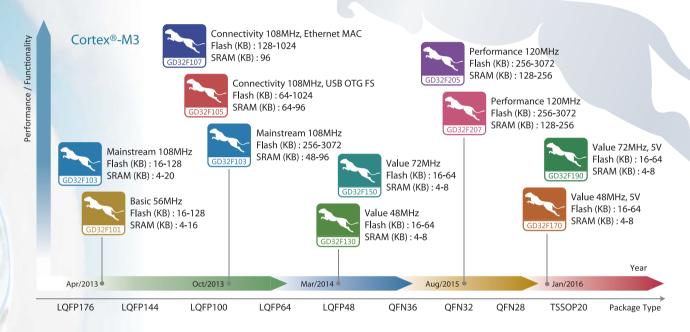
ARM Powered® **ARM**'CORTEX

ARM University

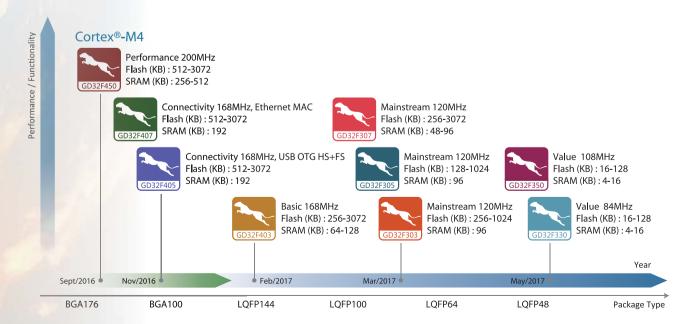
ARM Connected Community

GD32 MCU

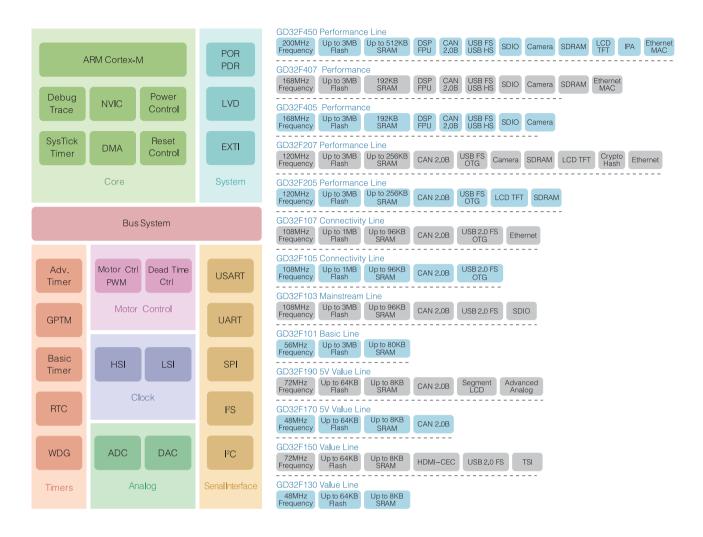
GD32 Cortex®-M3 MCU Portfolios



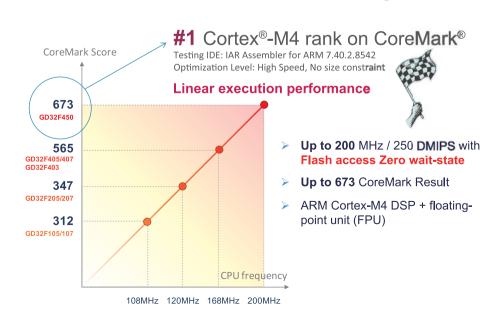
GD32 Cortex®-M4 MCU Portfolios



GD32 MCU Configuration



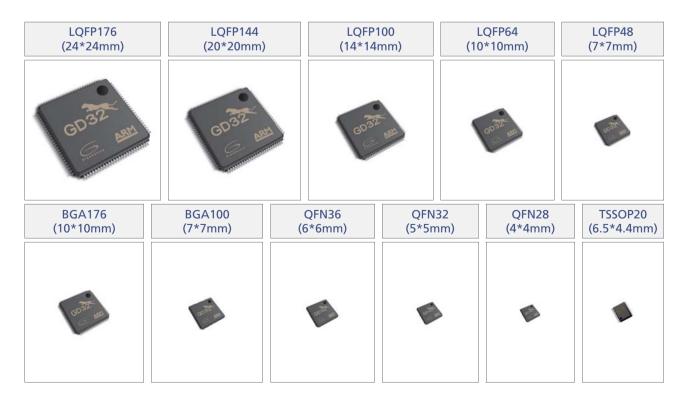
New GD32F4, Leading Performance







MCU Package Options











GD32 Development Eco-system

Build GD32 development environment with H/W and S/W compatible























Product Line

Multiplex products

Best peripherals

Series compatible

Easy to use

Service

Sufficient Capacity Fast lead time

High Performance Cost-effective

Eco-system

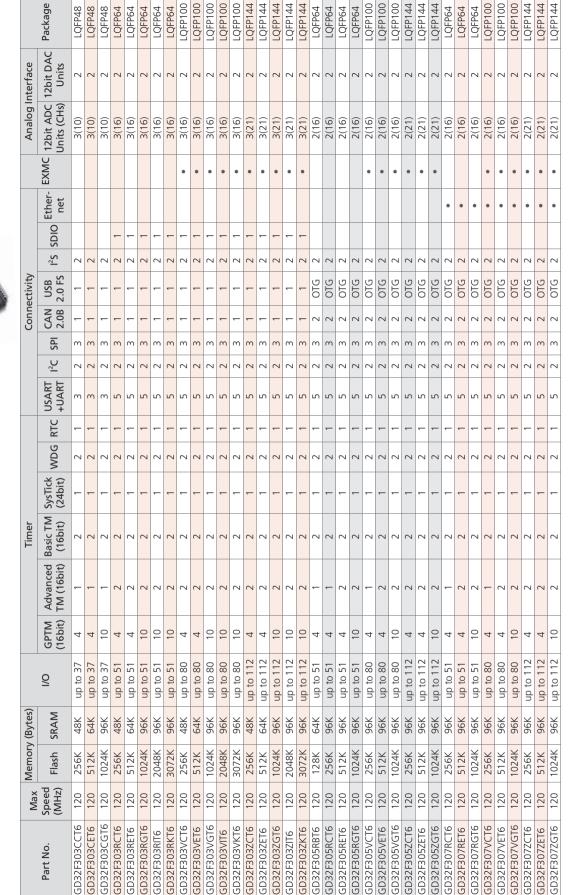
Quality

32-bit ARM® Cortex®-M4 MCUs Selection Guide GD32F3 series of

Series

CD35F303





CD35F305

CD32F307

GD32F3 series of 32-bit ARM® Cortex®-M4 MCUs Selection Guide



		Max	Memory (Bytes)	(Bytes)				F	Timer						Conne	Connectivity			Analog	Analog Interface	
Series	Part No.	Speed (MHz)	Flash	SRAM	<u>Q</u>	GPTM (32bit)	GPTM (16bit)	Advanced TM (16bit)	Basic TM (16bit)	SysTick (24bit)	WDG	RTC U	USART	l²C SF	SPI U.	USB I	l²S CEC	Comp	12bit ADC Units (CHs)	12bit DAC Units	Package
	GD32F330F4P6	84	16K	4K	up to 15	~	4	-		-	2	-	-	_	_				1(9)		TSSOP20
	GD32F330F6P6	84	32K	4K	up to 15	_	4	_		_	2	_	2	1					1(9)		TSSOP20
	GD32F330F8P6	84	64K	3K	up to 15	_	4	_		_	2	_	2	2 2	2				1(9)		TSSOP20
	GD32F330G4U6	84	16K	4K	up to 23	~	4	-		—	2	-	-	-	<u></u>				1(10)		QFN28
	GD32F330G6U6	84	32K	4K	up to 23	-	4	-		-	2	-	2	-	_				1(10)		QFN28
	GD32F330G8U6	84	64K	3K	up to 23	_	2	_		_	2	_	2	2 2	2				1(10)		QFN28
330	GD32F330K4U6	84	16K	4K	up to 27	-	4	-		-	2	-	-	-	<u></u>				1(10)		QFN32
32F	GD32F330K6U6	84	32K	4K	up to 27	-	4	-		-	2	-	2		_				1(10)		QFN32
еD	GD32F330K8U6	84	64K	3K	up to 27	_	2	_		_	2	-	2	2 2	2				1(10)		QFN32
	GD32F330C4T6	84	16K	4K	up to 39	-	4	-		-	2	-	-	-	<u></u>				1(10)		LQFP48
	GD32F330C6T6	84	32K	4K	up to 39	_	4	_		_	2	_	2	1	_				1(10)		LQFP48
	GD32F330C8T6	84	64K	8K	up to 39	-	2	-		-	2	-	2	2 2	2				1(10)		LQFP48
	GD32F330CBT6	84	128K	16K	up to 39	-	2	_		_	2	-	2	2 2	2				1(10)		LQFP48
	GD32F330R8T6	84	64K	16K	up to 55	1	5	1		1	2	1	2	2 2	2				1(16)		LQFP64
	GD32F330RBT6	84	128K	16K	up to 55	_	2	_		_	2	_	2	2 2	2				1(16)		LQFP64
	GD32F350G4U6	108	16K	4K	up to 24	1	5	1	1	1	2	1	1	1 1		OTG	1 1	2	1(10)	1	QFN28
	GD32F350G6U6	108	32K	9K	up to 24	1	5	1	1	1	2	1	2	1 1	1 0	OTG	1 1	2	1(10)	1	QFN28
	GD32F350G8U6	108	64K	8K	up to 24	1	5	1	1	1	2	1	2	2 2	2 0	OTG	1 1	2	1(10)	1	QFN28
	GD32F350K4U6	108	16K	4K	up to 27	1	2	_	1	1	2	_	1	1	0	OTG	1	2	1(10)	1	QFN32
	GD32F350K6U6	108	32K	9K	up to 27	1	2	1	1	1	2		2	1	1 0	OTG	1 1	2	1(10)	1	QFN32
0:	GD32F350K8U6	108	64K	8K	up to 27	1	2	_	1	1	2	_	2	2 2	2 0	OTG	1	2	1(10)	1	QFN32
5E32	GD32F350C4T6	108	16K	4K	up to 39	1	2	1	1	1	2		1	1 1		OTG	1	2	1(10)	1	LQFP48
D3S	GD32F350C6T6	108	32K	W W	up to 39	—	2	—	—	—	2	_	2	_	0	OTG		2	1(10)	_	LQFP48
9	GD32F350C8T6	108	64K	8K	up to 39	1	2	1	1	1	2		2	2 2	2 0	OTG	1 1	2	1(10)	1	LQFP48
	GD32F350CBT6	108	128K	16K	up to 39	1	2	_	1	1	2	_	2	2 2	2 0	OTG	1 1	2	1(10)	1	LQFP48
	GD32F350R4T6	108	16K	4K	up to 55	1	2	1	1	1	2		1	1	1 0	OTG	1 1	2	1(16)	1	LQFP64
	GD32F350R6T6	108	32K	% X	up to 55	_	2	_	_	_	2	_	2		0	OTG		2	1(16)	_	LQFP64
	GD32F350R8T6	108	64K	16K	up to 55	1	5	1	1	1	2	1	2	2 2	2 0	OTG	1 1	2	1(16)	1	LQFP64
	GD32F350RBT6	108	128K	16K	up to 55	_	2	-	~	-	2	_	2	2 2	2 0	OTG		7	1(16)	-	LQFP64



GD32F4 series of 32-bit ARM® Cortex®-M4F MCUs Selection Guide

GD 32

	۲C Package	LQFP100	LQFP100	LQFP100	LQFP100	LQFP144	LQFP144	LQFP144	LQFP144	BGA176	BGA176	BGA176	LQFP64	LQFP64	LQFP64	LQFP100	LQFP100	BGA100	BGA100	LQFP144	LQFP144	LQFP64	LQFP64	LQFP64	LQFP100	LQFP100	LQFP100	BGA100	BGA100	BGA100	LQFP144	LQFP144	LQFP144	BGA176	BGA176
Analog Interface	12bit DAC Units	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Analog	12bit ADC Units (CHs)	3(16)	3(16)	3(16)	3(16)	3(24)	3(24)	3(24)	3(24)	3(24)	3(24)	3(24)	3(16)	3(16)	3(16)	3(16)	3(16)	3(16)	3(16)	3(24)	3(24)	3(16)	3(16)	3(16)	3(16)	3(16)	3(16)	3(16)	3(16)	3(16)	3(24)	3(24)	3(24)	3(24)	3(24)
i	SDRAM	1/0	1/0	1/0	1/0	1/1	1/1	1/1	1/1	1/1	1/1	1/1													1/0	1/0	1/0	1/0	1/0	1/0	1/1	1/1	1/1	1/1	1/1
	IPA	-	_	_	_	-	_	-	_	_	_	_																							
	Cam ETH IPA Sera MAC	-	-	-	1	1	<u></u>		1	-	-		_	1	1	_	_	_	_	_	_	-	1		1 1		-	1	-	-	1		-	_	_
	O [G-								_																										
ivity	S SDIO	_	_	_		_	_		_	_	_	_	_	1	1	_		_		_	_	_			1	1	_	_	_	_		_	_	_	
Connectivity	l ² S	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2	5 2
Con	USB OTG	FS+HS																																	
	CAN 2.0B	7	2	7	2	7	2	2	7	2	2	7	2	2	2	7	7	7	7	7	7	7	7	7	2	7	7	7	2	7	7	7	7	7	7
	SPI	2	2	2	2	9	9	9	9	9	9	9	\sim	\sim	\sim	Μ	Μ	Μ	Μ	m	Μ	m	Μ	Μ	Μ	Μ	m	m	Μ	m	Μ	Μ	Μ	Μ	m
	1-C	m	m	m	M	m	m	m	m	m	M	Μ	\sim	Μ	Μ	Μ	M	Μ	M	m	M	m	M	Μ	Μ	Μ	m	m	m	m	M	Μ	m	Μ	m
	USART +UART	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+2	4+2	4+2	4+2	4+2	4+2	4+2	4+2	4+2	4+2	4+2	4+2	4+2	4+2	4+2	4+2	4+2	4+2	4+2	4+2	4+2	4+2	4+2
	RTC	-	_	_	_	-	_	_	_	_	_	_	_	_	_	<u></u>	_	_	_	_	_	_	_	_	1	_	_	-	_	_	_	_	_	_	_
	GPTM Bsc TM WDG RTC (32bit) (16bit)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
_	Bsc TN (16bit	2	2	2	2	2	2	2	2	2	2	2	2	2	2	7	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Timer	GPTM (32bit)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	GPTM Adv TM (16bit) (16bit)	00	oo	_∞	00	o	oo	_∞	_∞	_∞	_∞	00	o	8	00	oo	00	_∞	00	_∞	_∞	_∞	00	00	8	00	_∞	00	oo	_∞	00	00	_∞	_∞	00
	9	up to 82	up to 82	up to 82	up to 82	up to 114	up to 114	up to 114	up to 114	up to 140	up to 140	up to 140	up to 51	up to 51	up to 51	up to 82	up to 82	up to 82	up to 82	up to 114	up to 114	up to 51	up to 51	up to 51	up to 82	up to 114	up to 114	up to 114	up to 140	up to 140					
rtes)	ΔA			512K u		256K up	256K up	512K up	256K up	256K up		256K up	192K u	192K u	192K u	192K u		192K u	192K u	192K up	192K up	192K u	192K u		192K u	192K u		192K u	192K u	192K u	192K up	192K up	92K up	92K up	192K ur
Memory (Bytes)	sh SRAM	K 256K	4K 256K		2K 256K						8K 512K						2K 192K							2K 192K			2K 192K						_	_	
	z) Flash	512K	1024K	2048K	3072K	512K	1024K	2048K	3072K	1024K	2048K	3072K	512K	1024K	3072K	1024K	3072K	1024K	3072K	1024K	3072K	512K	1024K												
Max	Speed (MHz)	200	200	200	200	200	200	200	200	200	200	200		168	168	168	168	5 168	168	168	168	168	168	168	168	168	168	168	5 168	168	168	168	168	168	168
	Part No.	GD32F450VET6	GD32F450VGT6	GD32F450VIT6	GD32F450VKT6	GD32F450ZET6	GD32F450ZGT6	GD32F450ZIT6	GD32F450ZKT6	GD32F450IGH6	GD32F450IIH6	GD32F450IKH6	GD32F405RET6	GD32F405RGT6	GD32F405RKT6	GD32F405VGT6	GD32F405VKT6	GD32F405VGH6	GD32F405VKH6	GD32F405ZGT6	GD32F405ZKT6	GD32F407RET6	GD32F407RGT6	GD32F407RKT6	GD32F407VET6	GD32F407VGT6	GD32F407VKT6	GD32F407VEH6	GD32F407VGH6	GD32F407VKH6	GD32F407ZET6	GD32F407ZGT6	GD32F407ZKT6	GD32F407IEH6	GD32F407IGH6
	Series					0St	32F.	eDE)						9	50t	32F	eD:)								4	<u>۷</u> 07	32F.	2D3)				

GD32F4 series of 32-bit ARM® Cortex®-M4F MCUs Selection Guide



-	rackage	LQFP64	LQFP64	LQFP64	LQFP64	LQFP64	LQFP100	LQFP100	LQFP100	LQFP100	LQFP100	BGA100	BGA100	BGA100	BGA100	BGA100	LQFP144	LQFP144	LQFP144	LQFP144	LQFP144
d		7	7	3	7	7	9	07	9	9	O O	BG	BG	BG	BG	BG	9	9	g	9	Р
nterface	12bit DA Units	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Analog Interface	12bit ADC 12bit DAC Units (CHs) Units	3(16)	3(16)	3(16)	3(16)	3(16)	3(16)	3(16)	3(16)	3(16)	3(16)	3(16)	3(16)	3(16)	3(16)	3(16)	3(21)	3(21)	3(21)	3(21)	3(21)
EXMC/	SDRAM	0/0	0/0	0/0	0/0	0/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0
	PA																				
	LCD- Cam ETH TFT era MAC																				
vity	SDIO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_
Connectivity	l ² S	2	2	7	7	7	2	2	7	2	7	2	2	2	2	2	7	2	7	7	2
Conr	USB OTG	OTG																			
	CAN 2.0B	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	SPI	m	m	m	Μ	m	m	Ω	m	m	Μ	Ω	m	m	Μ	Ω	m	m	Μ	m	m
	T I'C	2	7	7	2	2	2	2	7	2	2	2	2	7	2	2	7	2	7	7	2
	USART +UART	3+2	3+2	3+2	3+2	3+2	3+2	3+2	3+2	3+2	3+2	3+2	3+2	3+2	3+2	3+2	3+2	3+2	3+2	3+2	3+2
	RTC	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	1
	WDG	7	7	7	7	7	2	2	7	7	7	2	2	7	2	2	7	7	7	7	2
_	GPTM Bsc TM WDG (32bit) (16bit)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Timer																					
	GPTM Adv TM (16bit) (16bit)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	GPTM (16bit)	∞	_∞	∞	∞	∞	_∞	_∞	œ	∞	∞	_∞	_∞	_∞	∞	_∞	œ	∞	∞	∞	∞
9	2	up to 51	up to 80	up to 112																	
(Bytes)	SRAM	64K	396K	128K	128K	128K	64K	39K	128K	128K	128K	64K	36K	128K	128K	128K	64K	96K	128K	128K	128K
Memory (Bytes)	Flash	256K	512K	1024K	2048K	3072K	256K	512K	1024K	2048K	3072K	256K	512K	1024K	2048K	3072K	256K	512K	1024K	2048K	3072K
	Speed (MHz)	168	168	168	168	168	168	168	168	168	168	168	168	168	168	168	168	168	168	168	168
	ran No.	GD32F403RCT6	GD32F403RET6	GD32F403RGT6	GD32F403RIT6	GD32F403RKT6	GD32F403VCT6	GD32F403VET6	GD32F403VGT6	GD32F403VIT6	GD32F403VKT6	GD32F403VCH6	GD32F403VEH6	GD32F403VGH6	GD32F403VIH6	GD32F403VKH6	GD32F403ZCT6	GD32F403ZET6	GD32F403ZGT6	GD32F403ZIT6	GD32F403ZKT6
	Series			1		1					E403	CD35		1						1	



GD32F2 series of 32-bit ARM® Cortex®-M3 MCUs Selection Guide

GD32

		×e	Memor	Memory (Bytes)				Timer							Conne	Connectivity	<i>></i>					Analog Interface	nterface	
Series	Part No.	Speed (MHz)	Flash	SRAM	0/1	GPTM , (16bit)	GPTM Adv TM Bsc (16bit) (16bit) (16	Adv TM Bsc TM SysTick (16bit) (16bit) (24bit)	sTick 4bit)	G RTC	USART +UART	I ₂ C	SPI C/	CAN USB 2.0B 2.0 FS	iB I²S	S SDIO	O TFT	- Cam era	ETH	Crypto/ Hash	SDRAM	12bit ADC Units (CHs)	12bit DAC Units	Package
	GD32F205RCT6	120	256K	128K	up to 51	10	2	2	1 2	-	4+2	m	m	2 OTG	.G 2	-						3(16)	2	LQFP64
	GD32F205RET6	120	512K	128K	up to 51	10	2	2	1 2	-	4+2	m	m	2 OTG	.G 2	_						3(16)	2	LQFP64
	GD32F205RGT6	120	1024K	256K	up to 51	10	2	2	1 2	-	4+2	m	m	2 OTG	.G 2	_						3(16)	2	LQFP64
	GD32F205RKT6	120	3072K	256K	up to 51	10	2	2	1 2	-	4+2	m	m	2 OTG	.G 2	_						3(16)	2	LQFP64
S	GD32F205VCT6	120	256K	128K	up to 82	10	2	2	1 2	-	4+4	Μ	m	2 OTG	.G 2	-	-				1/0	3(16)	2	LQFP100
E20	GD32F205VET6	120	512K	128K	up to 82	10	2	2	1 2	-	4+4	m	m	2 OTG	.G 2	_	-				1/0	3(16)	2	LQFP100
D3S	GD32F205VGT6	120	1024K	256K	up to 82	10	2	2	1 2	-	4+4	m	m	2 OTG	.G 2	-	-				1/0	3(16)	2	LQFP100
9	GD32F205VKT6	120	3072K	256K	up to 82	10	2	2	1 2	-	4+4	m	m	2 OTG	.G 2	-	-				1/0	3(16)	2	LQFP100
	GD32F205ZCT6	120	256K	128K	up to 114	10	2	2	1 2	-	4+4	m	m	2 OTG	.G 2	_	<u></u>				1/1	3(24)	2	LQFP144
	GD32F205ZET6	120	512K	128K	up to 114	10	2	2	1 2	-	4+4	m	m	2 OTG	.G 2	-	-				1/1	3(24)	2	LQFP144
	GD32F205ZGT6	120	1024K	256K	up to 114	10	2	2	1 2	-	4+4	m	m	2 OTG	.G 2	-	-				1/1	3(24)	2	LQFP144
	GD32F205ZKT6	120	3072K	256K	up to 114	10	2	2	1 2	-	4+4	m	m	2 OTG	.G 2	-	-				1/1	3(24)	2	LQFP144
	GD32F207RCT6	120	256K	128K	up to 51	10	2	2	1 2	_	4+2	m	ω	2 OTG	.e 5	_		_	1	_		3(16)	2	LQFP64
	GD32F207RET6	120	512K	128K	up to 51	10	2	2	1 2	_	4+2	m	ω	2 OTG	.e 5	_		_	1	_		3(16)	2	LQFP64
	GD32F207RGT6	120	1024K	256K	up to 51	10	2	2	1 2	-	4+2	m	m	2 OTG	.G 2	-		-	-	-		3(16)	2	LQFP64
	GD32F207RKT6	120	3072K	256K	up to 51	10	2	2	1 2	_	4+2	m	m	2 OTG	.G 2	-		-	-	_		3(16)	2	LQFP64
	GD32F207VCT6	120	256K	128K	up to 82	10	2	2	1 2	-	4+4	m	ω	2 OTG	.e 5	_	_	_	_	_	1/0	3(16)	2	LQFP100
	GD32F207VET6	120	512K	128K	up to 82	10	2	2	1 2	_	4+4	М	3	2 OTG	.G 2	1	_	1	1	1	1/0	3(16)	2	LQFP100
۷02	GD32F207VGT6	120	1024K	256K	up to 82	10	2	2	1 2	_	4+4	Μ	m	2 OTG	.G 5	_	_	_	_	<u></u>	1/0	3(16)	2	LQFP100
32F.	GD32F207VKT6	120	3072K	256K	up to 82	10	2	2	1 2	_	4+4	M	m	2 OTG	.G 5	_	_	_	_	<u></u>	1/0	3(16)	2	LQFP100
eD:	GD32F207ZCT6	120	256K	128K	up to 114	10	2	2	1 2	-	4+4	Μ	m	2 OTG	.G 2	-	-	-	-	-	1/1	3(24)	2	LQFP144
	GD32F207ZET6	120	512K	128K	up to 114	10	2	2	1 2	_	4+4	M	ω	2 OTG	.e 5	_	_	_	1	_	1/1	3(24)	2	LQFP144
	GD32F207ZGT6	120	1024K	256K	up to 114	10	2	2	1 2	-	4+4	m	ω	2 OTG	.e 5	_	_	_	_	_	1/1	3(24)	2	LQFP144
	GD32F207ZKT6	120	3072K	256K	up to 114	10	2	2	1 2	_	4+4	M	ω	2 OTG	.e 5	_	_	_	1	_	1/1	3(24)	2	LQFP144
	GD32F207IET6	120	512K	128K	up to 140	10	2	2	1 2	-	4+4	m	ω	2 OTG	.e 5	_	_	_	_	_	1/1	3(24)	2	LQFP176
	GD32F207IGT6	120	1024K	256K	up to 140	10	2	2	1 2	_	4+4	Μ	Θ	2 OTG	.G 2	_	_	1	_	_	1/1	3(24)	2	LQFP176
	GD32F207IKT6	120	3072K	256K	up to 140	10	2	2	1 2	_	4+4	Μ	m	2 OTG	.G 5	_	_	_	_	<u></u>	1/1	3(24)	2	LQFP176



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		Max	Memory (Bytes)	/ (Bytes)					Timer					S	Connectivity	ity			Analog Interface	terface	
Series	Part No.	Speed (MHz)	Flash	SRAM	<u>Q</u>	GPTM (32bit)	GPTM (16bit)	Advanced TM (16bit)	Basic TM (16bit)	SysTick (24bit)	WDG	RTC	USART		SPI US	USB i	l²S CEC		12bit ADC Units (CHs)	12bit DAC Units	Package
	GD32F130F4P6	48	16K	4K	up to 15	1	4	_		-	2	-	-	_	-				1(9)		TSSOP20
	GD32F130F6P6	48	32K	4K	up to 15	10	4	_		_	2	-	2	_	—				1(9)		TSSOP20
	GD32F130F8P6	48	64K	X8	up to 15	1	4	_		_	2	_	2	2	2				1(9)		TSSOP20
	GD32F130G4U6	48	16K	4K	up to 23	-1	4	.		_	2	_	_	_	<u></u>				1(10)		QFN28
30	GD32F130G6U6	48	32K	4K	up to 23	1	4	1		1	2	_	2	1	_				1(10)		QFN28
lЫ	GD32F130G8U6	48	64K	SK	up to 23	3 1	2			1	2	1	2	2	2				1(10)		QFN28
35	GD32F130K4U6	48	16K	4K	up to 27	7	4	_		_	2	_	_	_	<u></u>				1(10)		QFN32
D 5	GD32F130K6U6	48	32K	4K	up to 27	1 1	4	_		_	2	_	2	_					1(10)		QFN32
)	GD32F130K8U6	48	64K	X8	up to 27	7	2	_		_	2	-	2	2	2				1(10)		QFN32
	GD32F130C4T6	48	16K	4K	up to 39	1	4	_		_	2	_	_	_	_				1(10)		LQFP48
	GD32F130C6T6	48	32K	4K	up to 39	1	4	_		-	2	-	2	-	-				1(10)		LQFP48
	GD32F130C8T6	48	64K	X8	up to 39	1	2			_	2	_	2	2	2				1(10)		LQFP48
	GD32F130R8T6	48	64K	% X	up to 55	1	2	_		_	2	_	2	2	2				1(16)		LQFP64
	GD32F150G4U6	72	16K	4K	up to 24	1 1	2	1	_		2	1	1	1	1	1	1		1(10)	1	QFN28
	GD32F150G6U6	72	32K	9K	up to 24	1	2	_	-	_	2	_	2	_	_	_	1		1(10)	1	QFN28
	GD32F150G8U6	72	64K	8K	up to 24	1 1	2	1	_	_	2	1	2	2	2	1	1		1(10)	1	QFN28
(GD32F150K4U6	72	16K	4K	up to 27	1 1	2	_	-	_	2	_	_	_	·	_	1		1(10)	1	QFN32
)S	GD32F150K6U6	72	32K	9K	up to 27	1	2	1	_	_	2	_	2	1	1	1	1		1(10)	1	QFN32
lΗi	GD32F150K8U6	72	64K	XX	up to 27	1 1	2	_	_	_	2	_	2	2	2		1		1(10)	_	QFN32
35	GD32F150C4T6	72	16K	4K	up to 39	1	2	_	_	_	2	_	_	_	_	_	1		1(10)	_	LQFP48
2 D	GD32F150C6T6	72	32K	9 Y9	up to 39	1	2	_	_	_	2	_	2	_	<u></u>	_	1		1(10)	-	LQFP48
)	GD32F150C8T6	72	64K	X8	up to 39	1	2		_	_	2	_	2	2	2	1	1		1(10)		LQFP48
	GD32F150R4T6	72	16K	4K	up to 55	1	2	_	_	_	2	_	_	_	<u></u>	_	1		1(16)	_	LQFP64
	GD32F150R6T6	72	32K	9 W	up to 55	1	2		_	_	2	_	2	_	_		1		1(16)	_	LQFP64
	GD32F150R8T6	72	64K	8K	up to 55	1	2	_	_	_	2	_	2	2	2	1	1		1(16)	1	LQFP64
		Max	Memory (Bytes)	(Bytes)	(Timer						Connectivity	ivitv			Analog	Analog Interface	
Series	Part No.	Speed		24 60	0	GPTM	GPTM	Advanced	Basic TM	1 SysTick	(ē	CAN	-	-G		12	C 12bit DAC	Package
		(MHz)	Flash	SKAM		(32bit)	(16bit)	•			WDG	KIC U	USAKI ITC	SPI	2.0B	I'S LCD		Comp			
	GD32F170T4U6	48	16K	4K	up to 28	1	4	1		_	2	1	1 1	_	2				1(10)		QFN36
02	GD32F170T6U6	48	32K	4K	up to 28	1	4	1		_	2	_	2 1		2				1(10)		QFN36
ĿЫ	GD32F170T8U6	48	64K	₩:	up to 28		Ω,	_		_	2		2 3	m ·	2				1(10)		QFN36
28	GD32F170C4T6	48	16K	4K	up to 39	1	4				2				2				1(10)		LQFP48
<u>d</u> 5	GD32F170C616	248	32K	4K	up to 39		4 1				7		7		7				1(10)		LQFP48
)	GD32F1/0C816	48	64K	XX 2	up to 39		<u>د</u> ا				7 (7 (m n	7				1(10)		LQFP48
	GD32F190T4116	77	16K	AK AK	up to 52		O LC	- (-	-	-	7	-	7 1		7		2	2	1(10)	2	OFNISE
	GD37F190T6116	77	32K	Y Y	up to 28		י רע	- -		- -	7 (2	-	7 (1 (7 (1(10)	2	OFN36
0	GD32F190T8U6	72	64K	₩ ₩	up to 28		2			-	2	_	2	m	2		2	2	1(10)	2	OFN36
6l:	GD32F190C4T6	72	16K	4K	up to 39	1	2	_	-	-	2	-	1	-	2	1 4x18	8	2	1(10)	2	LQFP48
325	GD32F190C6T6	72	32K	9K	up to 39	1	2	1	_	1	2	1	2 1	_	2	1 4x18	8 2	2	1(10)	2	LQFP48
DE	GD32F190C8T6	72	64K	8K	up to 39	1	2	_	_	-	2	-	2 3	m	7	2 4x18		2	1(10)	2	LQFP48
9	GD32F190R4T6	72	16K	4K	up to 55	1	2	_	_	_	2	_	1	_	2	1 8x32		2	1(16)	2	LQFP64
	GD32F190R6T6	72	32K	Y9	up to 55	-	2	-	-	-	2	-	2		2	T	3	2	1(16)	2	LQFP64
	GD32F190R8T6	72	64K	×8	up to 5	-	2	<u></u>	_	_	2	—	2 3	m	2	2 8x32	2 3	2	1(16)	2	LQFP64

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1 1 1 - 2 2 2 7	1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2	2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 2 1 2 2 2 1 2 2 2 2 1 2 2 2 2 1 2	2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1 1 2 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	2 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	2	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	37 3 51 2 51 2 51 3 51 3	37 3 551 2 551 3 551 3 551 4 4 4 551 4	37 3 51 2 51 2 51 3 51 3 51 4 61 4 61 10 61 10	37 3 51 2 51 2 51 3 51 4 61 10 61 10 61 10 61 10	37 3 51 2 51 2 51 3 51 3 51 4 4 61 10 61 10 61 10 61 4 61 10 61 10 61 10 61 10 61 4 61 10 61 61 61 61 61 61 61 61 61 61 61 61 61 6	37 3 51 2 51 2 51 3 51 4 51 10 51 10	37 3 51 2 51 2 51 3 51 3 51 4 7 51 10 51 1	3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	37 3 51 2 51 2 51 3 51 4 51 10 51 10 51 10 51 10 60 10 80 4 80 4 80 4 80 10 80	37 3 51 2 51 2 51 2 51 3 51 4 51 4 51 10 51 10 51 10 61 10 6
2	6K up to 10K up to 20K up to 20K up to	20K 20K 20K 48K 64K 64K	20K 20K 20K 48K 64K 64K 96K 96K	6K up to 20K up to 20K up to 20K up to 48K up to 64K up to 96K up to 96K up to	0 K 0 K 0 K 0 K 0 K 0 K 0 K 0 K	6K up to 20K up to 20K up to 20K up to 64K up to 96K up to 96K up to 96K up to 96K up to 20K up to 20K up to 64K up to	0	10K 20K 20K 20K 48K 48K 20K 20K 20K 20K 20K 20K 20K 20K 20K 20	6K up to 20K up to 20K up to 20K up to 48K up to 64K up to 96K up to 96K up to 20K up to 20K up to 20K up to 64K up to 66K up to	6K up to 20K up to 20K up to 20K up to 48K up to 64K up to 96K up to 96K up to 20K up to 96K up to 20K up to 96K up to 64K up to 66K up to 96K up to 96K up to
GD32F103R6T6 108 32K			80 10 80 80 80 80 80 80 80 80 80 80 80 80 80		108 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	108 8 1 1 0 8 8 1 1 0 8 8 1 1 0 8 8 1 1 0 8 8 1 1 0 8 8 1 1 0 8 8 1 1 0 8 8 1 1 0 8 8 1 1 0 8 8 1 1 0 8 8 1 1 0 8 8 1 1 0 8 8 1 1 0 8 1 1 0 8 1 1 0 1 0



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	Package	LQFP64	LQFP100	LQFP144	LQFP144	LQFP144	LQFP144	LQFP144	LQFP64	LQFP64	LQFP64	LQFP64	LQFP64	LQFP64	LQFP100	LQFP100	LQFP100	LQFP100	LQFP100	LQFP100	LQFP144	LQFP144	LQFP144	LQFP144	LQFP144												
nterface	12bit DAC Units	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Analog Interface	12bit ADC Units (CHs)	2(16)	2(16)	2(16)	3(16)	3(16)	3(16)	3(16)	2(16)	2(16)	2(16)	3(16)	3(16)	3(16)	3(16)	3(21)	3(21)	3(21)	3(21)	3(21)	2(16)	2(16)	3(16)	3(16)	3(16)	3(16)	2(16)	2(16)	3(16)	3(16)	3(16)	3(16)	3(21)	3(21)	3(21)	3(21)	3(21)
	EXMC								•	•	•	•	•	•	•	•	•	•	•	•							•	•	•	•	•	•	•	•	•	•	•
	Ether- net																				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Connectivity	SDIO																																				
Conr	l ² S	2	2	2	2	2	2	2	2	2	2	2	2	2	7	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	7	2	2	2
	USB 2.0 FS	OTG																																			
	CAN 2.0B	2	2	2	2	2	2	2	2	2	2	2	2	2	7	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	7	2	2	2
	SPI	\sim	\sim	Μ	Μ	Μ	\sim	Μ	Μ	2	2	m	2	Μ	Μ	Μ	Μ	Μ	Μ	Μ	Μ	\sim	\sim	\sim	2	Ω	\sim	\sim	∞	Μ	Ω	Ω	Ω	m	М	Ω	Ω
	1 ₅ C	2	2	2	2	2	2	2	2	2	2	2	2	2	7	2	2	2	2	2	-	_	2	2	2	2	_	_	2	7	2	2	2	7	2	2	2
	USART (UART)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	RTC	_	-	_	_	_	-	_	_	1	1	_	1	_	_	_	_	_	_	_	-	_	-	_	1	1	_	1	_	_	1	1	1	_	1	1	-
	WDG	2	2	2	2	2	2	2	2	2	2	2	2	2	7	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	7	2	2	2
	SysTick (24bit)	_	_	_	_	_	_	_	_	1	1	_	1	_	_	_	_	_	_	_	_	_	_	_	1	1	1	1	1	_	1	1	1	_	1	1	-
Timer	Basic TM (16bit)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Advanced FTM (16bit)	_	-	_	2	2	2	2	_	1	1	2	2	2	2	2	2	2	2	2	_	_	2	2	2	2	1	1	2	2	2	2	2	2	2	2	2
	GPTM (16bit)	4	4	4	4	4	10	10	4	4	4	4	4	10	10	4	4	4	10	10	4	4	4	4	10	10	4	4	4	4	10	10	4	4	4	10	10
	9	up to 51	up to 80	up to 112	up to 51	up to 80	up to 112																														
(Bytes)	SRAM	64K	64K	36K	36K	36K	96K	36K	64K	64K	96K	36K	96K	96K	36K	96K	36K	36K	36K	36K	96K	36K	36K	36K	96K	96K	96K	96K	96K	36K	96K	96K	96K	36K	96K	96K	36K
Memory (Bytes)	Flash	64K	128K	256K	384K	512K	768K	1024K	64K	128K	256K	384K	512K	768K	1024K	256K	384K	512K	768K	1024K	128K	256K	384K	512K	768K	1024K	128K	256K	384K	512K	768K	1024K	256K	384K	512K	768K	1024K
Max	Speed (MHz)	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
	Part No.	GD32F105R8T6	GD32F105RBT6	GD32F105RCT6	GD32F105RDT6	GD32F105RET6	GD32F105RFT6	GD32F105RGT6	GD32F105V8T6	GD32F105VBT6	GD32F105VCT6	GD32F105VDT6	GD32F105VET6	GD32F105VFT6	GD32F105VGT6	GD32F105ZCT6	GD32F105ZDT6	GD32F105ZET6	GD32F105ZFT6	GD32F105ZGT6	GD32F107RBT6	GD32F107RCT6	GD32F107RDT6	GD32F107RET6	GD32F107RFT6	GD32F107RGT6	GD32F107VBT6	GD32F107VCT6	GD32F107VDT6	GD32F107VET6	GD32F107VFT6	GD32F107VGT6	GD32F107ZCT6	GD32F107ZDT6	GD32F107ZET6	GD32F107ZFT6	GD32F107ZGT6
	Series								2	iOl:	32F	:D)														L	.01	32F	:D)						

GD32F1 series of 32-bit ARM® Cortex®-M3 MCUs Selection Guide



Part No. Special Flash Standard Stan			Max	Memor	Memory (Bytes)				Timer							Connectivity	ctivity		Analog	Analog Interface	
CODZETIONTINGLE SG 33K K up to 26 2 1 1 2 1 1 1 1 1 1	Series	Part No.	Speed (MHz)		SRAM		GPTM (16bit)	Advanced TM (16bit)	Basic TM (16bit)	SysTick (24bit)						l ² S				12bit DAC () Units	Package
CODZETIOTINGING SG GRK Up to 26 2 1 2 1 2 1 2 1 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 <td></td> <td>GD32F101T4U6</td> <td>26</td> <td>16K</td> <td>4K</td> <td>up to 26</td> <td>2</td> <td></td> <td></td> <td>-</td> <td>2</td> <td>_</td> <td>2</td> <td>_</td> <td>_</td> <td></td> <td></td> <td></td> <td>1(10)</td> <td></td> <td>QFN36</td>		GD32F101T4U6	26	16K	4K	up to 26	2			-	2	_	2	_	_				1(10)		QFN36
COD22FOUTINES 56 64K		GD32F101T6U6	99	32K	9K	up to 26	2			_	2	_	2	_	1				1(10)		QFN36
CODZETIONTING 56 128K 16K 4M Upro 26 3 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1 1 2 </td <td></td> <td>GD32F101T8U6</td> <td>99</td> <td>64K</td> <td>10K</td> <td>up to 26</td> <td>m</td> <td></td> <td></td> <td>_</td> <td>2</td> <td>_</td> <td>2</td> <td>_</td> <td>1</td> <td></td> <td></td> <td></td> <td>1(10)</td> <td></td> <td>QFN36</td>		GD32F101T8U6	99	64K	10K	up to 26	m			_	2	_	2	_	1				1(10)		QFN36
CODZETYOUCRITIC SEG RIK M Up 03 37 2 1 2 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 2 1 </td <td></td> <td>GD32F101TBU6</td> <td>99</td> <td>128K</td> <td>16K</td> <td>up to 26</td> <td>M</td> <td></td> <td></td> <td>_</td> <td>2</td> <td>_</td> <td>2</td> <td>_</td> <td>1</td> <td></td> <td></td> <td></td> <td>1(10)</td> <td></td> <td>QFN36</td>		GD32F101TBU6	99	128K	16K	up to 26	M			_	2	_	2	_	1				1(10)		QFN36
CD22F1OLCENTG 56 32K 6K Upro 37 3		GD32F101C4T6	99	16K	4K	up to 37	2			_	2	_	2	_	_				1(10)		LQFP48
CODEFIDINGENIE 56 644 1044 44		GD32F101C6T6	99	32K	9 W	up to 37	2			_	2	_	2	_	_				1(10)		LQFP48
CORDAFIONCRIFE 56 128K LK Up to 57 3 1 2 1 3 2 2 CORDAFIONTRIFE 56 31K 4K Up to 51 2 1 2 1 <t< td=""><td></td><td>GD32F101C8T6</td><td>26</td><td>64K</td><td>10K</td><td>up to 37</td><td>m</td><td></td><td></td><td>_</td><td>2</td><td>-</td><td></td><td></td><td>2</td><td></td><td></td><td></td><td>1(10)</td><td></td><td>LQFP48</td></t<>		GD32F101C8T6	26	64K	10K	up to 37	m			_	2	-			2				1(10)		LQFP48
CO32F101RRIG 56 16K 4K Up to 51 2 1 2 1 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 3 2 2 3 2 2 3 3 3 4 2 1 2 1 2 3 3 2 2 3 3 3 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 3 3		GD32F101CBT6	99	128K	16K	up to 37	m			_	2	_			2				1(10)		LQFP48
CGD3F101R876 56 33K 6K Up to 51 3 3 1 1 1 1 1 1 1		GD32F101R4T6	56	16K	4K	up to 51	2			-	2	-	2	_	1				1(16)		LQFP64
CODATIONRY 5 CHANCINGRY 5 CARCINGRY 5 CARCINGRY CARCINGRY CARCINGRY 3 2 2 2 CARCINGRY CARCINGRY A <		GD32F101R6T6	99	32K	9 W	up to 51	2			-	2	_	2	_	_				1(16)		LQFP64
GOBZENOTINENTE 56 128K 16K Up b51 4 1 2 1 3 2 2 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 4 8 9 3 9 3 9 3 9 3 9 3 9 3 9 3 9 3 9 3 4 9 3 <td></td> <td>GD32F101R8T6</td> <td>99</td> <td>64K</td> <td>10K</td> <td>up to 51</td> <td>m</td> <td></td> <td></td> <td>_</td> <td>2</td> <td>_</td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td>1(16)</td> <td></td> <td>LQFP64</td>		GD32F101R8T6	99	64K	10K	up to 51	m			_	2	_			2				1(16)		LQFP64
GODZETIONRCITE 56 256K 32K up to 51 4 2 1 5 2 3 9<		GD32F101RBT6	99	128K	16K	up to 51	M			_	2	_			2				1(16)		LQFP64
GODZFIONREIG 56 384K 48K Up to 51 4 2 1 5 2 3 9 6 GODZFIONREIG 56 512K 48K Up to 51 10 2 1 5 2 3 9 9 9 GODZFIONRGIG 56 1024K 80K Up to 51 10 2 1 5 2 3 9 9 GODZFIONRGIG 56 1024K 80K Up to 51 10 2 1 5 1 5 2 3 9 9 GD3ZFIONRGIG 56 1024K 80K Up to 80 3 1 2 1 5 2 3 9 9 9 GD3ZFIONRGIG 56 1024K 80K Up to 80 3 1 2 1 5 2 3 9 9 9 GD3ZFIONAGIG 56 1024K 80K Up to 80 1 2 <td></td> <td>GD32F101RCT6</td> <td>99</td> <td>256K</td> <td>32K</td> <td>up to 51</td> <td>4</td> <td></td> <td>2</td> <td>1</td> <td>2</td> <td>1</td> <td></td> <td></td> <td>3</td> <td></td> <td></td> <td></td> <td>1(16)</td> <td>2</td> <td>LQFP64</td>		GD32F101RCT6	99	256K	32K	up to 51	4		2	1	2	1			3				1(16)	2	LQFP64
GD3ZF101RETG 56 512K 48K Up to 51 4 2 1 5 2 3 9 9 9 9 9 9 1 2 1 5 2 3 9 3 9 3 <td></td> <td>GD32F101RDT6</td> <td>99</td> <td>384K</td> <td>48K</td> <td>up to 51</td> <td>4</td> <td></td> <td>2</td> <td>1</td> <td>2</td> <td>1</td> <td></td> <td></td> <td>3</td> <td></td> <td></td> <td></td> <td>1(16)</td> <td>2</td> <td>LQFP64</td>		GD32F101RDT6	99	384K	48K	up to 51	4		2	1	2	1			3				1(16)	2	LQFP64
GD3ZF101RFT 56 768K 80K up to 51 10 2 1 5 2 3 9 <td></td> <td>GD32F101RET6</td> <td>99</td> <td>512K</td> <td>48K</td> <td>up to 51</td> <td>4</td> <td></td> <td>2</td> <td>_</td> <td>2</td> <td>_</td> <td></td> <td></td> <td>3</td> <td></td> <td></td> <td></td> <td>1(16)</td> <td>2</td> <td>LQFP64</td>		GD32F101RET6	99	512K	48K	up to 51	4		2	_	2	_			3				1(16)	2	LQFP64
GD32F101RGT6 56 1024R 80K upto 51 10 2 1 5 2 3 9 9 GD32F101RT6 56 2048K 80K upto 51 10 2 1 5 2 3 9 9 9 GD32F101RT6 56 2048K 80K upto 80 3 1 2 1 5 2 3 9 9 GD32F101VT6 56 128K 16K upto 80 4 2 1	ı	GD32F101RFT6	99	768K	80K	up to 51	10		2	_	2	_			3				2(16)	2	LQFP64
GD32F101RITG 56 2048K 80K up to 51 10 2 1 5 3 9 9 9 GD32F101RITG 56 307ZK 80K up to 80 3 1 2 1 5 2 3 9 9 GD32F101RITG 56 24K 10K up to 80 4 2 1 2 1 3 2 2 3 9 9 GD32F101VGTG 56 256K 32K up to 80 4 2 1 2 1 2 1 3 2 3 9 9 GD32F101VGTG 56 212K 48K up to 80 4 2 1 2 1 2 1 2 3 3 9 9 GD32F101VGTG 56 512K 48K up to 80 10 2 1 2 1 2 3 3 3 3 GD32F101VGTG </td <td>01</td> <td>GD32F101RGT6</td> <td>99</td> <td>1024K</td> <td>80K</td> <td>up to 51</td> <td>10</td> <td></td> <td>2</td> <td>1</td> <td>2</td> <td>_</td> <td></td> <td></td> <td>3</td> <td></td> <td></td> <td></td> <td>2(16)</td> <td>2</td> <td>LQFP64</td>	01	GD32F101RGT6	99	1024K	80K	up to 51	10		2	1	2	_			3				2(16)	2	LQFP64
GD3ZF101RKT 56 34X 80K up to 51 10 2 1 5 2 3 2 2 3 6 4 9 3 2 2 <td>32F</td> <td>GD32F101RIT6</td> <td>99</td> <td>2048K</td> <td>80K</td> <td>up to 51</td> <td>10</td> <td></td> <td>2</td> <td>1</td> <td>2</td> <td>1</td> <td></td> <td></td> <td>3</td> <td></td> <td></td> <td></td> <td>2(16)</td> <td>2</td> <td>LQFP64</td>	32F	GD32F101RIT6	99	2048K	80K	up to 51	10		2	1	2	1			3				2(16)	2	LQFP64
GD3ZF101V8TG 56 64K 10K up to 80 3 1 2 1 3 2 2 2 2 2 2 3 4 6 6 GD3ZF101VBTG 56 128K 16K up to 80 4 2 1 5 1 5 2 3 6 6 6 6 6 6 384K 48K up to 80 4 2 1 5 1 5 2 3 9	2D	GD32F101RKT6	26	3072K	80K	up to 51	10		2	1	2	_			2				2(16)	2	LQFP64
56 128K 16K upto80 3 1 2 1 3 2 2 3 9 • 56 256K 32K upto80 4 2 1 2 1 5 2 3 9 • • 56 356K 3K upto80 4 2 1 2 1 5 2 3 9 • • 56 512K 48K upto80 10 2 1 2 1 5 2 3 9 9 • 56 512K 48K upto80 10 2 1 2 1 5 2 3 9 9 9 56 1024K 80K upto80 10 2 1 2 1 5 2 3 9 9 9 56 204K 80K upto112 4 2 1 5 <td>)</td> <td>GD32F101V8T6</td> <td>99</td> <td>64K</td> <td>10K</td> <td>up to 80</td> <td>М</td> <td></td> <td></td> <td>_</td> <td>2</td> <td>_</td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td>•</td> <td>1(16)</td> <td></td> <td>LQFP100</td>)	GD32F101V8T6	99	64K	10K	up to 80	М			_	2	_			2			•	1(16)		LQFP100
56 256K 32K up to 80 4 2 1 5 2 3 9 • 56 384K 48K up to 80 4 2 1 2 1 5 3 9 • • 56 512K 48K up to 80 10 2 1 2 1 5 3 9 • • 56 768K 80K up to 80 10 2 1 2 1 5 3 9 • • • 56 2048K 80K up to 80 10 2 1 2 1 5 3 9 • <		GD32F101VBT6	99	128K	16K	up to 80	Μ			1	2	_			2			•	1(16)		LQFP100
56 384K 48K up to 80 4 2 1 2 1 5 3 9 9 56 512K 48K up to 80 4 2 1 2 1 5 3 9 9 56 768K 80K up to 80 10 2 1 5 2 3 9 9 9 56 1024K 80K up to 80 10 2 1 2 1 5 2 3 9 9 9 56 2048K 80K up to 112 4 2 1 2 1 5 2 3 9 9 9 9 56 2048K 80K up to 112 4 2 1 5 2 3 9 9 9 9 9 56 256K 384K 48K up to 112 4 2 1 5 1 5<		GD32F101VCT6	99	256K	32K	up to 80	4		2	1	2	1			3			•	1(16)	2	LQFP100
56 712K 48K up to 80 4 2 1 5 2 3 9 9 56 768K 80K up to 80 10 2 1 2 1 5 2 3 9 9 56 1024K 80K up to 80 10 2 1 5 2 3 9 9 9 56 2048K 80K up to 112 4 2 1 5 2 3 9 9 9 56 256K 32K up to 112 4 2 1 5 2 3 9 9 9 56 256K 32K up to 112 4 2 1 5 1 5 3 9 9 9 56 34K up to 112 4 2 1 5 1 5 3 9 9 9 56 1024K 80K		GD32F101VDT6	99	384K	48K	up to 80	4		2	1	2	_			3			•	1(16)	2	LQFP100
56 768K 80K up to 80 10 2 1 5 2 3 9 9 56 1024K 80K up to 80 10 2 1 5 2 3 9 9 56 2048K 80K up to 80 10 2 1 5 2 3 9 9 56 256K 32K up to 112 4 2 1 5 2 3 9 9 56 34K 48K up to 112 4 2 1 5 2 3 9 9 56 152K 38K up to 112 4 2 1 5 2 3 9 9 56 1024K 80K up to 112 10 2 1 5 2 3 9 9 56 1024K 80K up to 112 10 2 1 5 2 3		GD32F101VET6	99	512K	48K	up to 80	4		2	_	2	_			Ω.			•	1(16)	2	LQFP100
56 1024K 80K up to 80 10 2 1 5 2 3 9 9 56 2048K 80K up to 80 10 2 1 5 2 3 9 9 56 372K 80K up to 112 4 2 1 5 1 5 3 9 9 56 384K 48K up to 112 4 2 1 5 1 5 3 9 9 56 12K 48K up to 112 4 2 1 5 1 5 3 9 9 9 56 1024K 80K up to 112 10 2 1 5 1 5 3 9 9 9 56 1024K 80K up to 112 10 2 1 5 2 3 9 9 9 56 2048K 80K		GD32F101VFT6	26	768K	80K	up to 80	10		2	_	2	_			ω			•	2(16)	2	LQFP100
56 2048K 80K up to 80 10 2 1 5 2 3 9 9 56 372K 80K up to 80 10 2 1 5 2 3 9 9 56 256K 32K up to 112 4 2 1 5 1 5 3 9 9 56 344K 48K up to 112 4 2 1 5 1 5 3 9 9 56 512K 48K up to 112 10 2 1 5 2 3 9 9 9 56 1024K 80K up to 112 10 2 1 5 2 3 9 9 9 56 2048K 80K up to 112 10 2 1 5 2 3 9 9 9 56 2048K 80K up to 112 10 </td <td></td> <td>GD32F101VGT6</td> <td>99</td> <td>1024K</td> <td>80K</td> <td>up to 80</td> <td>10</td> <td></td> <td>2</td> <td>1</td> <td>2</td> <td>_</td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td>•</td> <td>2(16)</td> <td>2</td> <td>LQFP100</td>		GD32F101VGT6	99	1024K	80K	up to 80	10		2	1	2	_			2			•	2(16)	2	LQFP100
56 372K 80K up to 80 10 2 1 5 2 3 9 9 56 256K 32K up to 112 4 2 1 2 1 5 2 3 9 9 56 384K 48K up to 112 4 2 1 2 1 5 2 3 9 9 56 512K 48K up to 112 10 2 1 2 1 5 2 3 9 9 56 1024K 80K up to 112 10 2 1 5 2 3 9 9 56 2048K 80K up to 112 10 2 1 5 2 3 9 9 56 2048K 80K up to 112 10 2 1 5 2 3 9 9 56 2048K 80K up to 112 </td <td></td> <td>GD32F101VIT6</td> <td>26</td> <td>2048K</td> <td>80K</td> <td>up to 80</td> <td>10</td> <td></td> <td>2</td> <td>1</td> <td>2</td> <td>_</td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td>•</td> <td>2(16)</td> <td>2</td> <td>LQFP100</td>		GD32F101VIT6	26	2048K	80K	up to 80	10		2	1	2	_			2			•	2(16)	2	LQFP100
56 256K 32K upto112 4 2 1 5 2 3 9 56 384K 48K upto112 4 2 1 5 2 3 9 9 56 512K 48K upto112 4 2 1 5 1 5 3 9 9 56 1024K 80K upto112 10 2 1 5 1 5 3 9 9 56 2048K 80K upto112 10 2 1 5 2 3 9 9 56 2048K 80K upto112 10 2 1 5 1 5 3 9 9 56 2048K 80K upto112 10 2 1 5 2 3 9 9 9		GD32F101VKT6	99	3072K	80K	up to 80	10		2	_	2	_			Ω.			•	2(16)	2	LQFP100
56 384K 48K upto112 4 2 1 5 2 3 9 9 56 512K 48K upto112 4 2 1 5 2 3 9 9 56 7024K 80K upto112 10 2 1 2 1 5 2 3 9 9 56 2048K 80K upto112 10 2 1 5 1 5 3 9 9 56 3072K 80K upto112 10 2 1 5 1 5 3 9 9		GD32F101ZCT6	99	256K	32K	up to 112	4		2	1	2	_			3			•	1(16)	2	LQFP144
56 512K 48K upto112 4 2 1 5 2 3 9 56 768K 80K upto112 10 2 1 2 1 5 2 3 9 9 56 1024K 80K upto112 10 2 1 2 1 5 2 3 9 9 56 2048K 80K upto112 10 2 1 2 1 5 2 3 9 9 56 3072K 80K upto112 10 2 1 5 2 3 3 9 9		GD32F101ZDT6	99	384K	48K	up to 112	4		2	1	2	_			2			•	1(16)	2	LQFP144
56 768K 80K upto112 10 2 1 5 2 3 3 6 6 8 5 2048K 80K upto112 10 2 1 5 1 5 3 9 9 9 5 5 2048K 80K upto112 10 2 1 5 1 5 3 9 9 9		GD32F101ZET6	99	512K	48K	up to 112	4		2	_	2	_			3			•	1(16)	2	LQFP144
56 1024K 80K upto112 10 2 1 5 2 3 9 56 2048K 80K upto112 10 2 1 5 2 3 9 56 3072K 80K upto112 10 2 1 2 1 5 2 3 9		GD32F101ZFT6	99	768K	80K	up to 112	10		2	_	2	_			Ω.			•	2(16)	2	LQFP144
56 2048K 80K up to 112 10 2 1 2 1 5 2 3 - - - 5 56 3072K 80K up to 112 10 2 1 2 1 5 2 3 - -		GD32F101ZGT6	26	1024K	80K	up to 112	10		2	_	2	_			ω			•	2(16)	2	LQFP144
56 3072K 80K up to 112 10 2 1 2 3 8 8		GD32F101ZIT6	26	2048K	80K	up to 112	10		2	_	2	_			23			•	2(16)	2	LQFP144
		GD32F101ZKT6	99	3072K		up to 112	10		2	_	2	<u></u>			<u>е</u>			•	2(16)	2	LQFP144

GD SPI NOR Flash Features

3.0V

◆ Single Power Supply Voltage - Voltage range: 2.7V~3.6V

◆ High Speed Clock Frequency

- Maximum 120MHz for fast read with 30pF load*
- Dual I/O Data transfer up to 240Mbits/s
- Quad I/O Data transfer up to 480Mbits/s
- Continuous Read With 8/16/32/64-Byte Wrap

Flexible Memory Architecture

Sector Size: 4K BytesBlock Size: 32/64K Bytes

2.5V

Single Power Supply Voltage Voltage range: 2.3V~3.6V

◆ High Speed Clock Frequency

- Maximum 104MHz for fast read with 30pF load**
- Dual I/O Data transfer up to 208Mbits/s
- Quad I/O Data transfer up to 416Mbits/s
- Continuous Read With 8/16/32/64-Byte Wrap

◆ Flexible Memory Architecture

- Sector Size: 4K Bytes

- Block Size: 32/64K Bytes

1.8V

◆ Single Power Supply Voltage

- Voltage range: 1.65V~2.0V

◆ High Speed Clock Frequency

- 120MHz for fast read with 30pF load***
- Dual I/O Data transfer up to 240MHZ
- Quad I/O Data transfer up to 480Mbits/s
- QPI Data transfer up to 480Mbits/s
- Continuous Read With 8/16/32/64-Byte Wrap

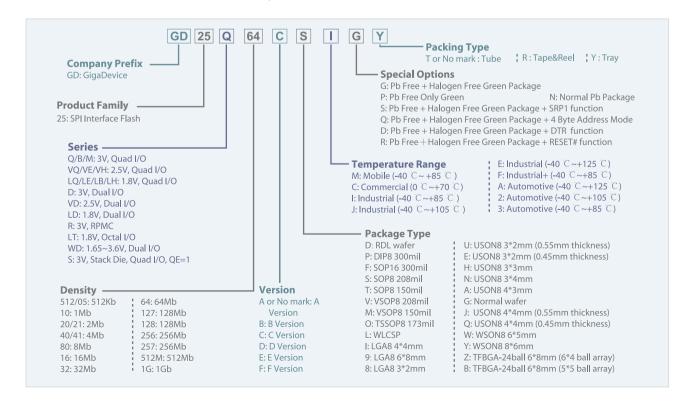
◆ Flexible Memory Architecture

- Sector Size: 4K Bytes

- Block Size: 32/64K Bytes

- * This feature is available on most of devices. Please refer to page 12-13.
- ** This Feature is available on most of devices. Please refer to Page 12-13
- *** This Feature is available on most of devices. Please refer to Page 12-13.

GD SPI NOR Flash Example





GD SPI NOR Flash Feature list

Flash Type						3.0\	/							2.5V		1.65V~3.6V						1.	8V			
Family		GD	25Q		GD	25B	(3D25	R	GD	25D	GD2	5VQ	GD25VE	GD25VD	GD25WD	C	D25L	.Q	(GD25	LB	GD2	25LH	GD25LE	GD25LD
Part No.	xx	x1B	xxB	xxC	xxB	xxC	xxB	xxC	xxD	xxB	xxC	x1B	xxC	xxC	xxB	xxC	xx/ xxB	xxC	xxD	xx	xxC	xxD	xx/ xxB	xxC	xxC/ xxD	xxC
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)	•	•	•	•	•	•	•	•	•			•	•	•			•	•	•		•	•	•	•	•	
QPI (4-4-4)																	•	•	•	•	•	•	•	•	•	
HOLD# Pin	•	•												•				•					•	•	•	
H/W Reset (RESET Pin)				•*									•*	•*												
S/W Reset				•		•		•	•				•	•			•	•	•	•	•	•	•	•	•	
H/W Write Protection (WP# Pin)	•	•	•	•						•	•	•	•	•	•	•	•	•	•				•	•	•	•
S/W Write Protection	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Enhanced Block Protection		•	•	•	•	•	•	•	•			•	•	•			•	•	•	•	•	•	•	•	•	
Volatile & Non- volatile Status Register Bits		•		•		•		•	•			•	•	•			•	•	•	•	•	•	•	•	•	
Output Driver Strength				•		•		•	•				•	•												
Security Regisrers with OTP locks		•	•	•		•		•	•			•	•				•	•	•	•	•	•	•	•	•	
SFDP Register				•	•	•	•	•	•				•	•			•	•	•	•	•	•	•	•	•	

^{*} Only available in Q64, Q127, Q256, Q512M device.

GD SPI NOR Flash Product list

Part No.	Density	Voltage	Organization	I/O Bus	Frequency (MHz)	
GD25Q512MC	512Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25Q256C*	256Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25Q256D	256Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25B256D	256Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25R256D	256Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25B256C*	256Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25Q127C	128Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25B127D	128Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25R127D	128Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25Q64C	64Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4)	
GD25B64C	64Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4)	
GD25R64C	64Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4)	
GD25Q32C	32Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4)	
GD25B32C	32Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4)	
GD25Q16C	16Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4)	
GD25B16C	16Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Ouad	120MH=/v1 v2 v4)	
	8Mb		4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4)	
GD25Q80C		2.7V-3.6V		Single / Dual / Quad	120MHz(x1, x2, x4)	
GD25Q40C	4Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4)	
GD25D40C	4Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual Output	100MHz(x1) 80MHz(x2)	
GD25Q20C	2Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4)	
GD25D20C	2Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual Output	100MHz(x1) 80MHz(x2)	
GD25D10B	1Mb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual Output	80MHz(x1, x2)	
GD25WD40C	4Mb	1.65V~3.6V	4KB / 32KB / 64KB	Single / Dual Output	100MHz(x1) 80MHz(x2)	
GD25WD20C	2Mb	1.65V~3.6V	4KB / 32KB / 64KB	Single / Dual Output	100MHz(x1) 80MHz(x2)	
GD25VD10B	1Mb	2.3V-3.6V	4KB / 32KB / 64KB	Single / Dual Output	80MHz(x1, x2)	
GD25D05B	512Kb	2.7V-3.6V	4KB / 32KB / 64KB	Single / Dual Output	80MHz(x1, x2)	
GD25VD05B	512Kb	2.3V-3.6V	4KB / 32KB / 64KB	Single / Dual Output	80MHz(x1, x2)	
GD25VQ64C	64Mb	2.3V-3.6V	4KB / 32KB / 64Kb	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25VQ32C	32Mb	2.3V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25VQ16C	16Mb	2.3V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25VQ80C	8Mb	2.3V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25VQ40C	4Mb	2.3V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25VQ20C	2Mb	2.3V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25VE64C	64Mb	2.1V-3.6V	4KB / 32KB / 64Kb	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25VE32C	32Mb	2.1V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25VE16C	16Mb	2.1V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25VE40C	4Mb	2.1V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25VE20C	2Mb	2.1V-3.6V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25LQ256D	256Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4)	
GD25LE256D	256Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4)	
GD25LQ128D	128Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4)	
GD25LE128D	128Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4)	
GD25LB128D	128Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4)	
GD25LQ64C	64Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	
GD25LE64C	64Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4)	
GD25LB64C	64Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	133MHz(x1, x2, x4)	
GD25LQ32D	32Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4)	
GD25LE32D	32Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4)	
GD25LB32D	32Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4)	
GD25LQ16*	16Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4)	
GD25LQ16C	16Mb	1.65V-2.1V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25LE16C	16Mb	1.65V-2.1V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25LB16*	16Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4)	
GD25LB16C	16Mb	1.65V-2.1V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25LH16*	16Mb	1.65V-1.95V	4KB / 32KB / 64KB	Single / Dual / Quad	120MHz(x1, x2, x4)	
GD25LH16C	16Mb	1.65V-2.1V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25LQ80B	8Mb	1.65V-2.1V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25LH80B	8Mb	1.65V-1.95V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25LQ40B	4Mb	1.65V-2.1V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25LD40C	4Mb	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual Output	40MHz(x1, x2)	
	2Mb	1.65V-2.1V	4KB / 32KB / 64KB	Single / Dual / Quad	104MHz(x1, x2, x4)	
GD25LO20B	20			-		
GD25LQ20B GD25LD20C	2Mh	1.65V-2.0V	4KB / 32KB / 64KB	Single / Dual Outnut	4()MHz(x1, x2)	
GD25LQ20B GD25LD20C GD25LQ10B	2Mb 1Mb	1.65V-2.0V 1.65V-2.1V	4KB / 32KB / 64KB 4KB / 32KB / 64KB	Single / Dual Output Single / Dual / Quad	40MHz(x1, x2) 104MHz(x1, x2, x4)	

^{*} Not recommended for new design.

SOPE 300ml SOSIOR 8 Februs TROCA-24 Aut of Permit of Stobul array	SOP16 300mil WSON8 8*6mm TFBGA-24ball 6*8mm (5*5ball array) TFBGA-24ball 6*8mm (6*4ball array)
SSPIF-8 300ml MSCAR S From TREAD A-Mail of From O'Shall amp)	
SOPIE 350ml MSCNB 675mm TEGA-24alla 675mm 675mb array	
SOPIG 200m SOPIG 200m VOOR 200m T800 200m VOOR 200m SOPIG 200m VOOR 200m VOOR 200m SOPIG 200m VOOR	
SCRR 208ml SCRP 108ml VSCRP 208ml VS	SOP16 300mil WSON8 8*6mm TFBGA-24ball 6*8mm (5*5ball array)
S0RR 208ml S0PR 309ml VSORR 208ml VSORR 208ml VSORR 815mm VS	SOP16 300mil WSON8 8*6mm TFBGA-24ball 6*8mm (5*5ball array)
SORE 208861 SOPE 309861 SOPE 309861 DER 300961 MSONR 615mm SORR 44mm (0.45mm) TESA-24bal 618mm (614bal array) SORR 208861 SORR 45mm SORR 44mm (0.45mm) TESA-24bal 618mm (614bal array) TES	 SOP8 208mil SOP16 300mil VSOP8 208mil DIP8 300mil WSON8 6*5mm WSON8 8*6mm TFBGA-24ball 6*8mm (6*4ball array)
SORP 208ml	SOP8 208mil SOP16 300mil VSOP8 208mil DIP8 300mil WSON8 6*5mm WSON8 8*6mm TFBGA-24ball 6*8mm (6*4ball array)
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SOR9 150m SOR9 205m SOR9 205m DRS 300m WSON8 6*5mm USON8 3*4mm USON8 4*4mm (0.45mm)	 SOP8 208mil DIP8 300mil WSON8 6*5mm
TRIGA_2 Abol of Femm (5* Spital array) TRIGA_2 Abol of Femm (6* Abol array)	
SOP8 208ml DIR 3 00ml VSCPR 208ml DIR 3 00ml VSCPR 208ml DIR 3 00ml VSCNR 6 *5mm USCNR 3 *2mm (0.45mm) USCNR 3 *4mm USCNR 4 *4mm (0.55mm)	
SOP8 150ml SOP8 208ml VSOP8 208ml DIRB 300ml TSOP8 173ml USON8 3*2mm (0.45mm) USON8 3*4mm USON8 4*4mm (0.45mm)	
SOPR 150ml SOPR 20ml SOPR 20ml SOSPR 173ml USONR 3*2mm (0.45mm) USONR 3*4mm USONR 3*4mm US	
SOP8 150ml SOP8 208ml VSOP8 150ml TSSOP8 173ml USSON8 3*2mm (U.55N8 3*2mm (U.55N8 3*4mm USSON8 3*4mm USSON8 4*4mm (U.55N8 4*4mm (U.45mm) SOP8 150ml SOP8 208ml VSOP8 150ml TSSOP8 173ml USSON8 3*2mm (U.45mm) USON8 3*4mm USON8 3*4mm (U.55N8 4*4mm (U.45mm) SOP8 150ml SOP8 208ml VSOP8 150ml TSSOP8 173ml USSON8 3*2mm (U.45mm) USON8 3*4mm (U.55N8 3*4mm (U	
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SOR8 150ml SOR8	
SOPR 150mL SOPR 208mL TSSOPR 172mL DIPR 300mL USONR 3 *2mm (0.45mm) USONR 3 *4mm USONR 3 *4mm USONR 3 *2mm (0.45mm) USONR 3 *4mm USONR 3 *4mm USONR 3 *2mm (0.45mm) USONR 3 *4mm USONR 3 *4mm USONR 3 *4mm USONR 3 *2mm (0.45mm) USONR 3 *4mm USON	
SORB 150ml SORB 208ml VSORB 150ml TSORB 173ml USONB 3*2mm (0.45mm) USONB 3*4mm USONB 3*4mm USONB 3*2mm (0.55mm) USONB 3*2mm (0.45mm) USONB 3	
SORP 150mml SORP 208mml TSDOR 173mml DIPB 300mml USDNR 3*2mm (0.45mm)	
SOPR 150ml SOPR 208ml TSSOPR 173ml DPR 300ml USONR 3*2mm (0.45mm)	
SOPR 150ml SOPR 208ml TSSOPR 173ml DIR 300ml USONR 3*2mm (0.45mm)	SOP8 150mil TSSOP8 173mil USON8 3*2mm (0.55mm)
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SOP8 150mil SOP8 208mil VSOP8 150mil TSSOP8 150mil TSSOP8 173mil USON8 3*2mm (0.45mm)	
SOP8 150mi SOP8 208mi VSOP8 150mi TSSOP8 173mi USON8 3*2mm (0.45mm)	
SOPR 208mil SOP16 300mil DIPB 300mil WSONR 6*5mm USONR 4*4mm(0.45mm) TFBGA-24ball 6*8mm (6*4ball array)	SOP8 150mil SOP8 208mil VSOP8 150mil TSSOP8 173mil USON8 3*2mm (0.45mm)
SOPR 150mil SOPR 208mil VSOPR 208mil DIP8 300mil WSON8 6*5mm USON8 3*3mm USON8 3*4mm TFBGA-24ball 6*8mm (5*5ball array)	SOP8 150mil SOP8 208mil VSOP8 150mil TSSOP8 173mil USON8 3*2mm (0.45mm)
SOP8 150mil SOP8 208mil VSOP8 208mil VSOP8 150mil TSSOP8 173mil USON8 3*2mm (0.45mm) USON8 3*2mm (0.55mm) USON8 3*2mm (0.45mm) USON8 3*2mm (0.	SOP8 208mil SOP16 300mil DIP8 300mil WSON8 6*5mm USON8 4*4mm(0.45mm) TFBGA-24ball 6*8mm (6*4ball array)
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SOP8 150mi SOP8 208mi VSOP8 150mi TSSOP8 173mi USON8 3*2mm (0.45mm)	
SOP8 150mi SOP8 208mi VSOP8 150mi TSSOP8 173mi USON8 3*2mm (0.45mm)	
SOP8 150mil SOP8 208mil VSOP8 150mil TSSOP8 173mil USON8 3*2mm (0.45mm)	
WSON8 6*5mm	
WSON8 6*5mm	
SOP8 208mil	WSON8 6*5mm WSON8 8*6mm TFBGA-24ball 6*8mm (6*4ball array)
SOP8 208mil VSOP8 208mil WSON8 6*5mm	SOP8 208mil VSOP8 208mil WSON8 6*5mm WSON8 8*6mm LGA8 4*4mm
SOP8 208mil VSOP8 208mil USON8 4*4mm (0.45mm) USON8 4*4mm (0.45mm) WLCSP	SOP8 208mil VSOP8 208mil WSON8 6*5mm WSON8 8*6mm LGA8 4*4mm WLCSP
SOP8 208mil VSOP8 208mil USON8 4*4mm (0.45mm) WLCSP	SOP8 208mil VSOP8 208mil WSON8 6*5mm
SOP8 208mil VSOP8 150mil VSOP8 150mil VSOP8 150mil VSOP8 208mil VSOP8 150mil VSOP8 208mil VSOP8	
SOP8 208mil VSOP8 150mil VSOP8 150mil VSOP8 208mil VSOP8	
SOP8 208mil VSOP8 208mil VSOP8 208mil VSOP8 150mil VSOP8 150mil VSOP8 208mil VSOP8	
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SOP8 150mil SOP8 208mil TSSOP8 173mil DIP8 300mil USON8 3*2mm SOP8 150mil SOP8 208mil VSOP8 208mil TSSOP8 173mil WSON8 6*5mm USON8 3*2mm (0.45mm) USON8 3*2mm (0.55mm) USON8 3*4mm	
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SOP8 150mil SOP8 208mil TSSOP8 173mil DIP8 300mil USON8 3*2mm	
SOP8 150mil SOP8 208mil VSOP8 150mil VSOP8 208mil TSSOP8 173mil WSON8 6*5mm USON8 3*2mm (0.45mm) USON8 3*2mm (0.55mm) USON8 3*4mm	SOP8 150mil SOP8 208mil TSSOP8 173mil DIP8 300mil USON8 3*2mm SOP8 150mil SOP8 208mil VSOP8 150mil VSOP8 150mil VSOP8 150mil VSOP8 150mil USON8 3*2mm (0.45mm) USON8 3*2mm (0.55mm) USON8 3*4mm



SPI NAND Flash

GD SPI NAND Flash Features

3.0V

- ◆ Power Supply Voltage: 2.7V~3.6V
- High Speed Clock Frequency
 - 120MHz for fast read with 30PF load
 - Quad I/O Data transfer up to 480Mbits/s
- Flexible Memory Architecture

1Gbit & 2Gbit:

- 2048-Byte page for read and program, spare area128-Byte
- (128K + 8K)-Byte per block for erase

4Gbit & 8Gbit:

- 4096-Byte page for read and program, spare area 256-Byte
- (256K + 16K)-Byte per block for erase

Enhanced Access Performance

- 2K-Byte cache for fast random read for 1G & 2G
- 4K-Byte cache for fast random read for 4G & 8G
- Cache read and cache program

Advanced Feature for NAND

- Internal ECC option
- Internal data move by page with ECC
- Promised good block0 with ECC

1.8V

- ◆ Power Supply Voltage: 1.7V~2.0V
- High Speed Clock Frequency
 - 120MHz for fast read with 30PF load
 - Quad I/O Data transfer up to 480Mbits/s

Flexible Memory Architecture

1Gbit & 2Gbit:

- 2048-Byte page for read and program, spare area 128-Byte
- (128K + 8K)-Byte per block for erase

4Gbit & 8Gbit:

- 4096-Byte page for read and program, spare area 256-Byte
- (256K + 16K)-Byte per block for erase

Enhanced Access Performance

- 2K-Byte cache for fast random read for 1G & 2G
- 4K-Byte cache for fast random read for 4G & 8G
- Cache read and cache program

Advanced Feature for NAND

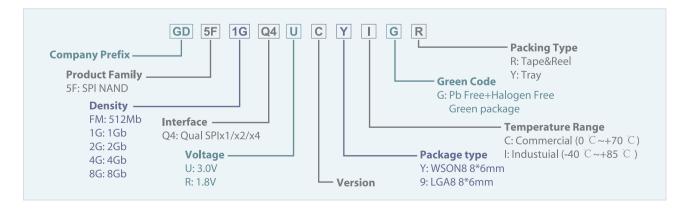
- Internal ECC option
- Internal data move by page with ECC
- Promised good block0 with ECC

GD SPI NAND Flash Product List

Part No.	Density	Package
GD5F8GQ4U	8Gb	LGA8 8*6mm
GD5F4GQ4U	4Gb	WSON8/LGA8 8*6mm
GD5F2GQ4U	2Gb	WSON8/LGA8 8*6mm
GD5F1GQ4U	1Gb	WSON8 8*6mm

Part No.	Density	Package
GD5F8GQ4R	8Gb	LGA8 8*6mm
GD5F4GQ4R	4Gb	WSON8/LGA8 8*6mm
GD5F2GQ4R	2Gb	WSON8/LGA8 8*6mm
GD5F1GQ4R	1Gb	WSON8/LGA8 8*6mm

GD SPI NAND Flash Example





Advantages – Less Pin



SPI NAND Flash

27/48



Parallel NAND Flash

Reduce Core Chip Cost

Fewer pins required by SPI NAND reduces the Core Chip pin count.

Advantages – PCB cost

Reduced pin count Core Chip and small SPI NAND Flash chip result in smaller PCB area and cost reduction.

Reduce PCB Cost



SPI NAND Flash



Parallel NAND Flash



Advantages – Design

Reduce PCB difficulty Cut down design cycles V

Less pins than Parallel NAND Flash, help make it easier for layout, reduce PCB design difficulty, Cut down design cycles of electronic products.

Design based on SPI NAND Flash



Design based on Parallel NAND Flash













Flash Package Options

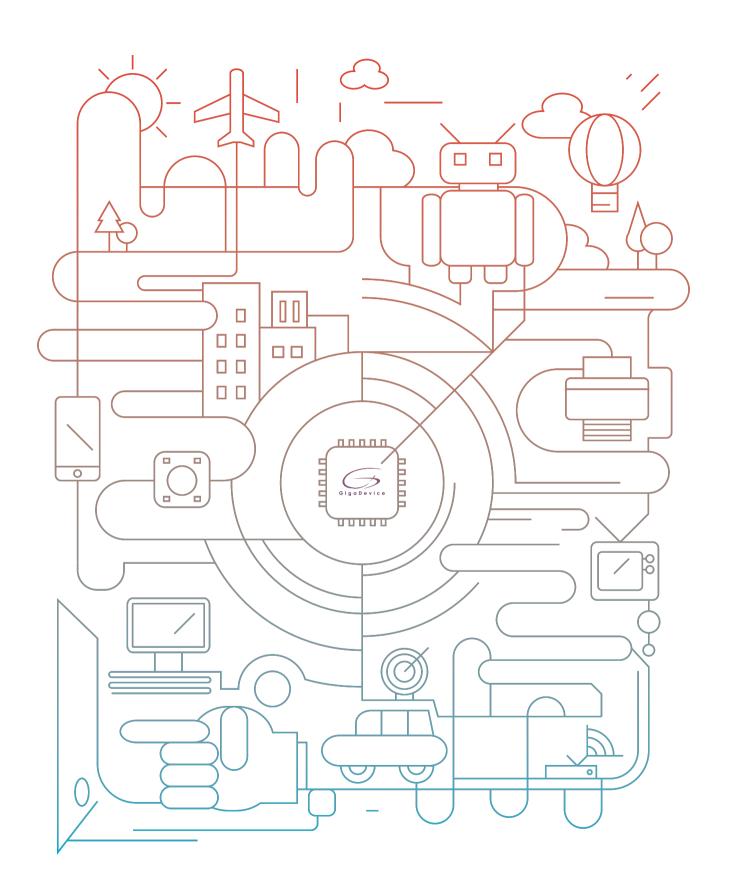
SOP8 150mil

Unit: mm

	*	SOP8 150mil			
		Length(Normal)	4.90		
Т	4	Width(Normal)	6.00		
200		Thickness(Max)	1.75		
	- 2-2	Pitch(Normal)	1.27		
	w.K.	SOP8 208mil			
		Length(Normal)	5.23		
S	Width(Normal)	7.90			
	Thickness(Max)	2.16			
	-6-	Pitch(Normal)	1.27		
	*	VSOP8 150mil			
M	100	Length(Normal)	4.90		
		Width(Normal)	6.00		
	200	Thickness(Max)	0.90		
	- 2	Pitch(Normal)	1.27		
		VSOP8 208	mil		
	11/1	Length(Normal)	5.28		
V	6	Width(Normal)	7.90		
	90	Thickness(Max)	1.00		
	- 6	Pitch(Normal)	1.27		
		TSSOP8 173mil			
	11/1/2	Length(Normal)	2.96		
0		Width(Normal)	6.40		
		Thickness(Max)	1.20		
	100	Pitch(Normal)	0.65		
			SOP16 300mil		
		Length(Normal)	10.30		
F		Width(Normal)	10.35		
	Basse	Thickness(Max)	2.75		
	-40	Pitch(Normal)	1.27		
		TSOP56 14*20			
		Length(Normal)	14.00		
C		Width(Normal)	20.00		
		Thickness(Max)	1.20		
		Pitch(Normal)	0.50		
		DIP8 300mil			
	The State of the S	Length(Normal)	9.32		
Р		Width(Normal)	7.94		
		Thickness(Max)	3.50		
		Pitch(Normal)	2.54		
		TFBGA-24ball 6*8 (6	*4hall arrav		
		Length(Normal)	6.00		
Ζ		Width(Normal)	8.00		
		Thickness(Max)	1.20		
		Pitch(Normal)	1.00		
		TFBGA-24ball 6*8 (5	*5ball array		
		Length(Normal)	6.00		
В		Width(Normal)	8.00		
-		Thickness(Max)	1.20		
		Pitch(Normal)	1.00		
		LGA8 3*2			
Ω	F-2555	Length(Normal)	3.00		
	44		2.00		
8					
8		Width(Normal) Thickness(Max)	0.50		

		USON8 3*2 (0.55mm)		
U	17.002	Length(Normal)	3.00	
		Width(Normal)	2.00	
	-	Thickness(Max)	0.60	
		Pitch(Normal)	0.50	
		USON8 3*2 (0.45mm)		
E 🗳		Length(Normal)	3.00	
		Width(Normal)	2.00	
	-	Thickness(Max)	0.50	
		Pitch(Normal)	0.50	
		USON8 3*3		
Н		Length(Normal)	3.00	
		Width(Normal)	3.00	
		Thickness(Max)	0.60	
		Pitch(Normal)	0.50	
		USON8 3*4		
N		Length(Normal)	3.00	
	1.16	Width(Normal)	4.00	
	100	Thickness(Max)	0.60	
		Pitch(Normal)	0.80	
		USON8 4*	3	
	Auto-	Length(Normal)	4.00	
Α		Width(Normal)	3.00	
	-039	Thickness(Max)	0.60	
		Pitch(Normal)	0.80	
		USON8 4*4 (0.55mm)		
	4	Length(Normal)	4.00	
J A		Width(Normal)	4.00	
	00	Thickness(Max)	0.60	
		Pitch(Normal)	0.80	
		USON8 4*4 (0.45mm)		
		Length(Normal)	4.00	
Q		Width(Normal)	4.00	
		Thickness(Max)	0.50	
		Pitch(Normal)	0.80	
		WSON8 6*5		
	L'E	Length(Normal)	6.00	
W		Width(Normal)	5.00	
	100	Thickness(Max)	0.80	
		Pitch(Normal)	1.27	
		WSON8 8*6		
		Length(Normal)	8.00	
Y		Width(Normal)	6.00	
		Thickness(Max)	0.80	
		Pitch(Normal)	1.27	
		WLCSP		
L		Depends on specific product		

- 1. The values provided are the normal values for length, width and pitch, as well as the max values for thickness.
- 2. The pictures are for reference only, please subject to practicality.



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