

GD32 MCU Family

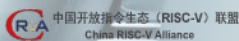
Core	Arm® Cortex®-M 32-bit MCUs (Flash KB/RAM KB)							RISC-V MCUs
Type	Cortex®-M23	Cortex®-M3	Cortex®-M4		Cortex®-M33		Cortex®-M7	RISC-V
High-Performance		GD32F207 120MHz, 3M/256K	GD32F470 240MHz, 3M/768K	GD32F450 200MHz, 3M/512K	GD32G553 216MHz, 512K/128K	GD32F527 200MHz, 7.5M/1M	GD32H75E 600MHz, 3840K/1024K	
		GD32F205 120MHz, 3M/256K	GD32F427 200MHz, 3M/256K	GD32F425 200MHz, 3M/256K	GD32E518 180MHz, 512K/128K	GD32E517 180MHz, 512K/128K	GD32H759 600MHz, 3840K/1024K	
			GD32F407 168MHz, 3M/192K	GD32F405 168MHz, 3M/192K	GD32E513 180MHz, 512K/128K	GD32E508 180MHz, 512K/128K	GD32H757 600MHz, 3840K/1024K	
		GD32F403 168MHz, 3M/128K		GD32E507 180MHz, 512K/128K	GD32E505 180MHz, 512K/128K	GD32H737 600MHz, 3840K/1024K		
				GD32E503 180MHz, 512K/128K				
Main-Stream		GD32F107 108MHz, 1M/96K	GD32F307 120MHz, 1M/96K	GD32F305 120MHz, 1M/96K	GD32E502 100MHz, 384K/48K			GD32VF103 120MHz, 128K/32K
		GD32F105 108MHz, 1M/96K	GD32F303 120MHz, 3M/96K	GD32C113 120MHz, 128K/32K				
		GD32F103 108MHz, 3M/96K	GD32E113 120MHz, 128K/32K	GD32C103 120MHz, 128K/32K				
		GD32F101 56MHz, 3M/80K	GD32E103 120MHz, 128K/32K					
Entry-Level	GD32E235 72MHz, 128K/16K	GD32F150 72MHz, 64K/8K	GD32F350 108MHz, 128K/16K	GD32F330 84MHz, 128K/16K				
	GD32E230 72MHz, 64K/8K	GD32F130 48MHz, 64K/8K	GD32F310 72MHz, 64K/8K					
Low-Power Consumption	GD32L235 64MHz, 128K/24K							
	GD32L233 64MHz, 256K/32K							
Wireless					GD32W515 180MHz, 2048K/448K			GD32VW553 160MHz, 4M/320K
Automotive					GD32A513 100MHz, 384K/48K	GD32A503 100MHz, 384K/48K	GD32A74x 160MHz, Lockstep1 core	
							GD32A72x 160MHz, Dual core	
							GD32A71x 160MHz, Single core	
Specific	GD32E232 72MHz, 64K/8K		GD32FFPR 168MHz, 1M/128K		GD32E501 100MHz, 512K/32K	GD32EPRT 168MHz, 384K/96K+4M		

GD32 MCU

arm CORTEX

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arm University Program



High-Performance MCU

GD32H7 Series 32-bit Arm® Cortex®-M7 High-Performance MCU Selection Guide



Series	Part No.	Max Speed (MHz)	Memory (Bytes)		I/O	Timer								Connectivity														EXMC	Analog Interface				Package
			Flash	SRAM		GPTM (16bit)	GPTM (32bit)	Ad- vanced TM (16bit)	Basic TM (32bit)	Basic TM (64bit)	SysTick (24bit)	WDG	RTC	U(S) ART	I²C	SPI	OSPI	CAN 2.0B	I²S	USB OTG	Ethernet	EtherCAT Slave Controller (ESC)	SDIO	LCD- TFT	SAI	14bit ADC Units (CHs)	12bit ADC Units (CHs)		12bit DAC Units	COMP			
GD32H737	GD32H737VGT6	600	1024K	1024K	up to 78	10	4	2	2	2	1	2	1	8	4	5	1	2	4	1	1		2		2	•	1(14), 1(12)	1(4)	1	2	LQFP100		
	GD32H737VIT6	600	2048K	1024K	up to 78	10	4	2	2	2	1	2	1	8	4	5	1	3	4	1	1		2	1	2	•	1(14), 1(12)	1(4)	1	2	LQFP100		
	GD32H737VMT6	600	3840K	1024K	up to 78	10	4	2	2	2	1	2	1	8	4	5	1	3	4	1	1		2	1	2	•	1(14), 1(12)	1(4)	1	2	LQFP100		
	GD32H737ZGT6	600	1024K	1024K	up to 110	12	4	2	2	2	1	2	1	8	4	6	2	2	4	1	1		2		3	•	1(16), 1(14)	1(12)	1	2	LQFP144		
	GD32H737ZIT6	600	2048K	1024K	up to 110	12	4	2	2	2	1	2	1	8	4	6	2	3	4	1	1		2	1	3	•	1(16), 1(14)	1(12)	1	2	LQFP144		
	GD32H737ZMT6	600	3840K	1024K	up to 110	12	4	2	2	2	1	2	1	8	4	6	2	3	4	1	1		2	1	3	•	1(16), 1(14)	1(12)	1	2	LQFP144		
	GD32H737IGT6	600	1024K	1024K	up to 115	12	4	2	2	2	1	2	1	8	4	6	2	2	4	2	1		2		3	•	1(16), 1(14)	1(12)	1	2	LQFP176		
	GD32H737IIT6	600	2048K	1024K	up to 115	12	4	2	2	2	1	2	1	8	4	6	2	3	4	2	1		2	1	3	•	1(16), 1(14)	1(12)	1	2	LQFP176		
	GD32H737IMT6	600	3840K	1024K	up to 115	12	4	2	2	2	1	2	1	8	4	6	2	3	4	2	1		2	1	3	•	1(16), 1(14)	1(12)	1	2	LQFP176		
	GD32H737IGK6	600	1024K	1024K	up to 124	12	4	2	2	2	1	2	1	8	4	6	2	2	4	2	2		2		3	•	1(20), 1(18)	1(17)	1	2	BGA176		
	GD32H737IIK6	600	2048K	1024K	up to 124	12	4	2	2	2	1	2	1	8	4	6	2	3	4	2	2		2	1	3	•	1(20), 1(18)	1(17)	1	2	BGA176		
GD32H737IMK6	600	3840K	1024K	up to 124	12	4	2	2	2	1	2	1	8	4	6	2	3	4	2	2		2	1	3	•	1(20), 1(18)	1(17)	1	2	BGA176			
GD32H757	GD32H757VGT6	600	1024K	1024K	up to 78	10	4	2	2	2	1	2	1	8	4	5	1	3xFD	4	1	1		2	1	2	•	1(14), 1(12)	1(4)	1	2	LQFP100		
	GD32H757VIT6	600	2048K	1024K	up to 78	10	4	2	2	2	1	2	1	8	4	5	1	3xFD	4	1	1		2	1	2	•	1(14), 1(12)	1(4)	1	2	LQFP100		
	GD32H757VMT6	600	3840K	1024K	up to 78	10	4	2	2	2	1	2	1	8	4	5	1	3xFD	4	1	1		2	1	2	•	1(14), 1(12)	1(4)	1	2	LQFP100		
	GD32H757VGJ6	600	1024K	1024K	up to 78	10	4	2	2	2	1	2	1	8	4	5	1	3xFD	4	1	1		2	1	2	•	1(14), 1(12)	1(4)	1	2	BGA100		
	GD32H757VIJ6	600	2048K	1024K	up to 78	10	4	2	2	2	1	2	1	8	4	5	1	3xFD	4	1	1		2	1	2	•	1(14), 1(12)	1(4)	1	2	BGA100		
	GD32H757VMJ6	600	3840K	1024K	up to 78	10	4	2	2	2	1	2	1	8	4	5	1	3xFD	4	1	1		2	1	2	•	1(14), 1(12)	1(4)	1	2	BGA100		
	GD32H757ZGT6	600	1024K	1024K	up to 110	12	4	2	2	2	1	2	1	8	4	6	2	3xFD	4	1	1		2	1	3	•	1(16), 1(14)	1(12)	1	2	LQFP144		
	GD32H757ZIT6	600	2048K	1024K	up to 110	12	4	2	2	2	1	2	1	8	4	6	2	3xFD	4	1	1		2	1	3	•	1(16), 1(14)	1(12)	1	2	LQFP144		
	GD32H757ZMT6	600	3840K	1024K	up to 110	12	4	2	2	2	1	2	1	8	4	6	2	3xFD	4	1	1		2	1	3	•	1(16), 1(14)	1(12)	1	2	LQFP144		
GD32H759	GD32H759IGT6	600	1024K	1024K	up to 115	12	4	2	2	2	1	2	1	8	4	6	2	3xFD	4	2	1		2	1	3	•	1(16), 1(14)	1(12)	1	2	LQFP176		
	GD32H759IIT6	600	2048K	1024K	up to 115	12	4	2	2	2	1	2	1	8	4	6	2	3xFD	4	2	1		2	1	3	•	1(16), 1(14)	1(12)	1	2	LQFP176		
	GD32H759IMT6	600	3840K	1024K	up to 115	12	4	2	2	2	1	2	1	8	4	6	2	3xFD	4	2	1		2	1	3	•	1(16), 1(14)	1(12)	1	2	LQFP176		
	GD32H759IGK6	600	1024K	1024K	up to 124	12	4	2	2	2	1	2	1	8	4	6	2	3xFD	4	2	2		2	1	3	•	1(20), 1(18)	1(17)	1	2	BGA176		
	GD32H759IIK6	600	2048K	1024K	up to 124	12	4	2	2	2	1	2	1	8	4	6	2	3xFD	4	2	2		2	1	3	•	1(20), 1(18)	1(17)	1	2	BGA176		
	GD32H759IMK6	600	3840K	1024K	up to 124	12	4	2	2	2	1	2	1	8	4	6	2	3xFD	4	2	2		2	1	3	•	1(20), 1(18)	1(17)	1	2	BGA176		
GD32H75E	GD32H75EYMJ6	600	3840K	1024K	up to 116	10	4	2	2	2	1	2	1	8	4	6	1	3xFD	4	2	2xPHY	1			•	2(22)	1(15)	1	2	BGA240			
	GD32H75EYMJ6B	600	3840K	1024K	up to 113	9	3	2	2	2	1	2	1	8	4	6	1	3xFD	4	2	0	1			•	2(20)	1(15)	1	2	BGA240			

High-Performance MCU

GD32G5 Series 32-bit Arm® Cortex®-M33 High-Performance MCU Selection Guide



Series	Part No.	Max Speed (MHz)	Memory (Bytes)		I/O	Timer									Connectivity							EXMC	AES/DES	Analog Interface		Package
			Flash	SRAM		GPTM (16bit)	GPTM (32bit)	LPTM (16bit)	HRTM (16bit)	Advanced TM (16bit)	Basic TM (16bit)	SysTick (24bit)	WDG	RTC	U(S)ART	I²C	SPI	QSPI	CAN	COMP	TRIGSEL			12bit ADC Units (CHs)	12bit DAC Units	
GD32G553	GD32G553CCU7	216	256K	128K	up to 43	5	2	1	1	3	2	1	2	1	3+2	4	3	1	3xFD	7	1		•	4(21)	8	QFN48
	GD32G553CEU7	216	512K	128K	up to 43	5	2	1	1	3	2	1	2	1	3+2	4	3	1	3xFD	7	1		•	4(21)	8	QFN48
	GD32G553CCT7	216	256K	128K	up to 39	5	2	1	1	3	2	1	2	1	3+2	4	3	1	3xFD	7	1		•	4(20)	8	LQFP48
	GD32G553CET7	216	512K	128K	up to 39	5	2	1	1	3	2	1	2	1	3+2	4	3	1	3xFD	7	1		•	4(20)	8	LQFP48
	GD32G553RCT7	216	256K	128K	up to 52	5	2	1	1	3	2	1	2	1	3+2	4	3	1	3xFD	7	1		•	4(26)	8	LQFP64
	GD32G553RET7	216	512K	128K	up to 52	5	2	1	1	3	2	1	2	1	3+2	4	3	1	3xFD	7	1		•	4(26)	8	LQFP64
	GD32G553MCT7	216	256K	128K	up to 66	5	2	1	1	3	2	1	2	1	3+2	4	3	1	3xFD	8	1	1	•	4(38)	8	LQFP80
	GD32G553MET7	216	512K	128K	up to 66	5	2	1	1	3	2	1	2	1	3+2	4	3	1	3xFD	8	1	1	•	4(38)	8	LQFP80
	GD32G553MCY7TR	216	256K	128K	up to 66	5	2	1	1	3	2	1	2	1	3+2	4	3	1	3xFD	8	1	1	•	4(39)	8	WLCSP81
	GD32G553MEY7TR	216	512K	128K	up to 66	5	2	1	1	3	2	1	2	1	3+2	4	3	1	3xFD	8	1	1	•	4(39)	8	WLCSP81
	GD32G553VCT7	216	256K	128K	up to 86	5	2	1	1	3	2	1	2	1	3+2	4	3	1	3xFD	8	1	1	•	4(42)	8	LQFP100
	GD32G553VET7	216	512K	128K	up to 86	5	2	1	1	3	2	1	2	1	3+2	4	3	1	3xFD	8	1	1	•	4(42)	8	LQFP100
	GD32G553QCT7	216	256K	128K	up to 107	5	2	1	1	3	2	1	2	1	3+2	4	3	1	3xFD	8	1	1	•	4(42)	8	LQFP128
	GD32G553QET7	216	512K	128K	up to 107	5	2	1	1	3	2	1	2	1	3+2	4	3	1	3xFD	8	1	1	•	4(42)	8	LQFP128

GD32F5 Series 32-bit Arm® Cortex®-M33 High-Performance MCU Selection Guide

Series	Part No.	Max Speed (MHz)	Memory (Bytes)			I/O	Timer						Connectivity												EXMC/SDRAM	Analog Interface		Package
			Flash	Code-Flash	SRAM		GPTM (16bit)	Adv TM (16bit)	GPTM (32bit)	Basic TM (16bit)	WDG	RTC	U(S)ART /LIN	I²C	SPI	CAN 2.0B	USB OTG	I²S	SDIO	SAI	LCD- TFT	Camera	Ethernet	IPA		12bit ADC Units (CHs)	12bit DAC Units	
GD32F527	GD32F527RMT7	200	4096K	1536K	1088K	up to 51	8	2	2	2	2	1	4+2	3	3	2xFD	FS+HS	2	1	0	0	1	1	0		3(16)	2	LQFP64
	GD32F527RST7	200	7680K	2048K	576K	up to 51	8	2	2	2	2	1	4+2	3	3	2xFD	FS+HS	2	1	0	0	1	1	0		3(16)	2	LQFP64
	GD32F527VMT7	200	4096K	1536K	1088K	up to 82	8	2	2	2	2	1	4+4	3	5	2xFD	FS+HS	2	1	1	1	1	1	1	1/0	3(16)	2	LQFP100
	GD32F527VST7	200	7680K	2048K	576K	up to 82	8	2	2	2	2	1	4+4	3	5	2xFD	FS+HS	2	1	1	1	1	1	1	1/0	3(16)	2	LQFP100
	GD32F527ZMT7	200	4096K	1536K	1088K	up to 114	8	2	2	2	2	1	4+4	6	6	2xFD	FS+HS	2	1	1	1	1	1	1	1/1	3(24)	2	LQFP144
	GD32F527ZST7	200	7680K	2048K	576K	up to 114	8	2	2	2	2	1	4+4	6	6	2xFD	FS+HS	2	1	1	1	1	1	1	1/1	3(24)	2	LQFP144
	GD32F527IMT7	200	4096K	1536K	1088K	up to 140	8	2	2	2	2	1	4+4	6	6	2xFD	FS+HS	2	1	1	1	1	1	1	1/1	3(24)	2	LQFP176
	GD32F527IST7	200	7680K	2048K	576K	up to 140	8	2	2	2	2	1	4+4	6	6	2xFD	FS+HS	2	1	1	1	1	1	1	1/1	3(24)	2	LQFP176
	GD32F527IMK7	200	4096K	1536K	1088K	up to 140	8	2	2	2	2	1	4+4	6	6	2xFD	FS+HS	2	1	1	1	1	1	1	1/1	3(24)	2	BGA176
	GD32F527ISK7	200	7680K	2048K	576K	up to 140	8	2	2	2	2	1	4+4	6	6	2xFD	FS+HS	2	1	1	1	1	1	1	1/1	3(24)	2	BGA176

High-Performance MCU

GD32F4 Series 32-bit Arm® Cortex®-M4 High-Performance MCU Selection Guide



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

High-Performance MCU

GD32F4 Series 32-bit Arm® Cortex®-M4 High-Performance MCU Selection Guide



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

High-Performance MCU

GD32F4 Series 32-bit Arm® Cortex®-M4 High-Performance MCU Selection Guide



Series	Part No.	Max Speed (MHz)	Memory (Bytes)		I/O	Timer						Connectivity												EXMC/SDRAM	Analog Interface		Package
			Flash	SRAM		GPTM (16bit)	Adv TM (16bit)	GPTM (32bit)	Basic TM (16bit)	WDG	RTC	U(S)ART +UART	I²C	SPI	CAN 2.0B	USB OTG	I²S	SDIO	LCD- SDIO TFT	Camera	ETH MAC	IPA	12bit ADC Units (CHs)		12bit DAC Units		
GD32F407	GD32F407RET6	168	512K	192K	up to 51	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1			3(16)	2	LQFP64	
	GD32F407RGT6	168	1024K	192K	up to 51	8	2	2	2	2	1	4+2	3	3	2	FS+HS	2	1		1	1			3(16)	2	LQFP64	
	GD32F407RKT6	168	3072K	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	
	GD32F450IIH6	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	

High-Performance MCU

GD32E51x Series 32-bit Arm® Cortex®-M33 High-Performance MCU Selection Guide



Series	Part No.	Max Speed (MHz)	Memory (Bytes)		I/O	Timer							Connectivity												EXMC	Analog Interface		Package
			Flash	SRAM		GPTM (32bit)	GPTM (16bit)	Advanced TM (16bit)	Basic TM (16bit)	SysTick (24bit)	WDG	RTC	U(S)ART +UART	I²C	SPI	CAN 2.0B	USB 2.0	I²S	SDIO	Ethernet	TMU	HRTIM	COMP	12bit ADC Units (CHs)		12bit DAC Units		
GD32E513	GD32E513CCO6	180	256K	96K	up to 37	1	6	1	2	1	2	1	3+0	3	3	2	FS	2			•	•	3		3(10)	3	QFN48	
	GD32E513CCT6	180	256K	96K	up to 37	1	6	1	2	1	2	1	3+0	3	3	2	FS	2			•	•	3		3(10)	3	LQFP48	
	GD32E513CET6	180	512K	128K	up to 37	1	12	1	2	1	2	1	3+0	3	3	2	FS	2			•	•	3		3(10)	3	LQFP48	
	GD32E513RCT6	180	256K	96K	up to 51	1	6	2	2	1	2	1	4+2	3	3	2	FS	2	1		•	•	3		3(16)	3	LQFP64	
	GD32E513RET6	180	512K	128K	up to 51	1	12	2	2	1	2	1	4+2	3	3	2	FS	2	1		•	•	3		3(16)	3	LQFP64	
	GD32E513VCT6	180	256K	96K	up to 80	1	6	2	2	1	2	1	4+2	3	3	2	FS	2	1		•	•	3	•	3(16)	3	LQFP100	
	GD32E513VET6	180	512K	128K	up to 80	1	12	2	2	1	2	1	4+2	3	3	2	FS	2	1		•	•	3	•	3(16)	3	LQFP100	
	GD32E513ZCT6	180	256K	96K	up to 112	1	6	2	2	1	2	1	4+2	3	3	2	FS	2	1		•	•	3	•	3(21)	3	LQFP144	
	GD32E513ZET6	180	512K	128K	up to 112	1	12	2	2	1	2	1	4+2	3	3	2	FS	2	1		•	•	3	•	3(21)	3	LQFP144	
GD32E517	GD32E517RCT6	180	256K	96K	up to 51	1	6	1	2	1	2	1	4+2	3	3	3	HS OTG	2	1	•	•	•	3		3(16)	3	LQFP64	
	GD32E517RET6	180	512K	128K	up to 51	1	12	2	2	1	2	1	4+2	3	3	3	HS OTG	2	1	•	•	•	3		3(16)	3	LQFP64	
	GD32E517VCT6	180	256K	96K	up to 80	1	6	1	2	1	2	1	4+2	3	3	3	HS OTG	2	1	•	•	•	3	•	3(16)	3	LQFP100	
	GD32E517VET6	180	512K	128K	up to 80	1	12	2	2	1	2	1	4+2	3	3	3	HS OTG	2	1	•	•	•	3	•	3(16)	3	LQFP100	
	GD32E517ZCT6	180	256K	96K	up to 112	1	6	2	2	1	2	1	4+2	3	3	3	HS OTG	2	1	•	•	•	3	•	3(21)	3	LQFP144	
	GD32E517ZET6	180	512K	128K	up to 112	1	12	2	2	1	2	1	4+2	3	3	3	HS OTG	2	1	•	•	•	3	•	3(21)	3	LQFP144	
GD32E518	GD32E518CET6	180	512K	128K	up to 37	1	12	2	2	1	2	1	3+0	3	3	3xFD	HS OTG	2			•	•	3		3(10)	3	LQFP48	
	GD32E518RET6	180	512K	128K	up to 51	1	12	2	2	1	2	1	4+2	3	3	3xFD	HS OTG	2	1	•	•	•	3		3(16)	3	LQFP64	
	GD32E518VET6	180	512K	128K	up to 80	1	12	2	2	1	2	1	4+2	3	3	3xFD	HS OTG	2	1	•	•	•	3	•	3(16)	3	LQFP100	
	GD32E518ZET6	180	512K	128K	up to 112	1	12	2	2	1	2	1	4+2	3	3	3xFD	HS OTG	2	1	•	•	•	3	•	3(21)	3	LQFP144	

High-Performance MCU

GD32E5 Series 32-bit Arm® Cortex®-M33 High-Performance MCU Selection Guide



Series	Part No.	Max Speed (MHz)	Memory (Bytes)		I/O	Timer							Connectivity											EXMC	Analog Interface		Package
			Flash	SRAM		GPTM (32bit)	GPTM (16bit)	Advanced TM (16bit)	Basic TM (16bit)	SysTick (24bit)	WDG	RTC	U(S)ART +UART	I²C	SPI	CAN 2.0B	USB 2.0	I²S	SDIO	Ethernet	TMU	HRTIM	COMP		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
GD32E505	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
	GD32E505RBT6	180	128K	80K	up to 51	1	3	1	2	1	2	1	4+2	3	3	3	HS OTG	2			•	•	3		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			•	•	3		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			•	•	3		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			•	•	3	•	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			•	•	3	•	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			•	•	3	•	2(16)	2	LQFP144
GD32E507	GD32E505ZET6	180	512K	128K	up to 112	1	9	2	2	1	2	1	4+2	3	3	3	HS OTG	2			•	•	3	•	2(16)	2	LQFP144
	GD32E507RCT6	180	256K	96K	up to 51	1	3	1	2	1	2	1	4+2	3	3	3	HS OTG	2		•	•	•	3		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		•	•	•	3		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		•	•	•	3	•	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		•	•	•	3	•	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		•	•	•	3	•	2(16)	2	LQFP144
GD32E508	GD32E507ZET6	180	512K	128K	up to 112	1	9	2	2	1	2	1	4+2	3	3	3	HS OTG	2		•	•	•	3	•	2(16)	2	LQFP144
	GD32E508RET6	180	512K	128K	up to 51	1	9	2	2	1	2	1	4+2	3	3	3xFD	HS OTG	2		•	•	•	3		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		•	•	•	3	•	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		•	•	•	3	•	2(16)	2	LQFP144

High-Performance MCU

GD32F2 Series 32-bit Arm® Cortex®-M3 High-Performance MCU Selection Guide



Series	Part No.	Max Speed (MHz)	Memory (Bytes)		I/O	Timer						Connectivity												EXMC/ SDRAM	Analog Interface		Package
			Flash	SRAM		GPTM (16bit)	Adv TM (16bit)	Basic TM (16bit)	SysTick (24bit)	WDG	RTC	U(S)ART +UART	I²C	SPI	CAN 2.0B	USB 2.0 FS	I²S	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
	GD32F205ZKT6	120	3072K	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		1/0	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		1/0	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		1/0	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		1/0	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	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	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	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	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	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	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	3(24)	2	LQFP176

Main-Stream MCU

GD32F30x Series 32-bit Arm® Cortex®-M4 Main-Stream MCU Selection Guide



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	U(S)ART +UART	I²C	SPI	CAN 2.0B	USB 2.0 FS	I²S	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
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

Main-Stream MCU

GD32F10x Series 32-bit Arm® Cortex®-M3 Main-Stream MCU Selection Guide



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	U(S)ART +UART	I²C	SPI	CAN 2.0B	USB 2.0 FS	I²S	SDIO	Ethernet		12bit ADC Units (CHs)	12bit DAC Units	
GD32F101	GD32F101T4U6	56	16K	4K	up to 26	2			1	2	1	2	1	1							1(10)		QFN36
	GD32F101T6U6	56	32K	6K	up to 26	2			1	2	1	2	1	1							1(10)		QFN36
	GD32F101T8U6	56	64K	10K	up to 26	3			1	2	1	2	1	1							1(10)		QFN36
	GD32F101TBU6	56	128K	16K	up to 26	3			1	2	1	2	1	1							1(10)		QFN36
	GD32F101C4T6	56	16K	4K	up to 37	2			1	2	1	2	1	1							1(10)		LQFP48
	GD32F101C6T6	56	32K	6K	up to 37	2			1	2	1	2	1	1							1(10)		LQFP48
	GD32F101C8T6	56	64K	10K	up to 37	3			1	2	1	3	2	2							1(10)		LQFP48
	GD32F101CBT6	56	128K	16K	up to 37	3			1	2	1	3	2	2							1(10)		LQFP48
	GD32F101R4T6	56	16K	4K	up to 51	2			1	2	1	2	1	1							1(16)		LQFP64
	GD32F101R6T6	56	32K	6K	up to 51	2			1	2	1	2	1	1							1(16)		LQFP64
	GD32F101R8T6	56	64K	10K	up to 51	3			1	2	1	3	2	2							1(16)		LQFP64
	GD32F101RBT6	56	128K	16K	up to 51	3			1	2	1	3	2	2							1(16)		LQFP64
	GD32F101RCT6	56	256K	32K	up to 51	4		2	1	2	1	5	2	3							1(16)		LQFP64
	GD32F101RDT6	56	384K	48K	up to 51	4		2	1	2	1	5	2	3							1(16)		LQFP64
	GD32F101RET6	56	512K	48K	up to 51	4		2	1	2	1	5	2	3							1(16)		LQFP64
	GD32F101RFT6	56	768K	80K	up to 51	10		2	1	2	1	5	2	3							2(16)		LQFP64
	GD32F101RGT6	56	1024K	80K	up to 51	10		2	1	2	1	5	2	3							2(16)		LQFP64
	GD32F101RIT6	56	2048K	80K	up to 51	10		2	1	2	1	5	2	3							2(16)		LQFP64
	GD32F101RKT6	56	3072K	80K	up to 51	10		2	1	2	1	5	2	3							2(16)		LQFP64
	GD32F101V8T6	56	64K	10K	up to 80	3			1	2	1	3	2	2						•	1(16)		LQFP100
	GD32F101VBT6	56	128K	16K	up to 80	3			1	2	1	3	2	2						•	1(16)		LQFP100
	GD32F101VCT6	56	256K	32K	up to 80	4		2	1	2	1	5	2	3						•	1(16)		LQFP100
	GD32F101VDT6	56	384K	48K	up to 80	4		2	1	2	1	5	2	3						•	1(16)		LQFP100
	GD32F101VET6	56	512K	48K	up to 80	4		2	1	2	1	5	2	3						•	1(16)		LQFP100
	GD32F101VFT6	56	768K	80K	up to 80	10		2	1	2	1	5	2	3						•	2(16)		LQFP100
	GD32F101VGT6	56	1024K	80K	up to 80	10		2	1	2	1	5	2	3						•	2(16)		LQFP100
	GD32F101VIT6	56	2048K	80K	up to 80	10		2	1	2	1	5	2	3						•	2(16)		LQFP100
	GD32F101VKT6	56	3072K	80K	up to 80	10		2	1	2	1	5	2	3						•	2(16)		LQFP100
	GD32F101ZCT6	56	256K	32K	up to 112	4		2	1	2	1	5	2	3						•	1(16)		LQFP144
	GD32F101ZDT6	56	384K	48K	up to 112	4		2	1	2	1	5	2	3						•	1(16)		LQFP144
	GD32F101ZET6	56	512K	48K	up to 112	4		2	1	2	1	5	2	3						•	1(16)		LQFP144
	GD32F101ZFT6	56	768K	80K	up to 112	10		2	1	2	1	5	2	3						•	2(16)		LQFP144
	GD32F101ZGT6	56	1024K	80K	up to 112	10		2	1	2	1	5	2	3						•	2(16)		LQFP144
	GD32F101ZIT6	56	2048K	80K	up to 112	10		2	1	2	1	5	2	3						•	2(16)		LQFP144
	GD32F101ZKT6	56	3072K	80K	up to 112	10		2	1	2	1	5	2	3						•	2(16)		LQFP144

Main-Stream MCU

GD32F10x Series 32-bit Arm® Cortex®-M3 Main-Stream MCU Selection Guide



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	U(S)ART +UART	I²C	SPI	CAN 2.0B	USB 2.0 FS	I²S	SDIO	Ethernet		12bit ADC Units (CHs)	12bit DAC Units	
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

Main-Stream MCU

GD32F10x Series 32-bit Arm® Cortex®-M3 Main-Stream MCU Selection Guide



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	U(S)ART +UART	I²C	SPI	CAN 2.0B	USB 2.0 FS	I²S	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
	GD32F105ZET6	108	512K	96K	up to 112	4	1	2	1	2	1	5	2	3	2	OTG	2		•		2(16)	2	LQFP144
	GD32F105ZFT6	108	768K	96K	up to 112	4	1	2	1	2	1	5	2	3	2	OTG	2		•		2(16)	2	LQFP144
GD32F105ZGT6	108	1024K	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	LQFP64
	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

Main-Stream MCU

GD32E1/C1 Series 32-bit Arm® Cortex®-M4 Main-Stream MCU Selection Guide



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	U(S)ART +UART	I²C	SPI	CAN 2.0B	USB 2.0 FS	I²S	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		
	GD32E103VBT6	120	128K	32K	up to 80	10	2	2	1	2	1	3+2	2	3	OTG		2	•	2(16)	2	LQFP100		
GD32C103	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	
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		
	GD32E113VBT6	120	128K	32K	up to 80	10	2	2	1	2	1	3+2	2	3	OTG		2	•	2(16)	2	LQFP100		
GD32C113	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	

Main-Stream MCU

GD32E502 Series 32-bit Arm® Cortex®-M33 Main-Stream MCU Selection Guide



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)	Basic TM (16bit)	SysTick (24bit)	WDG	RTC	U(S)ART /LIN	I²C	SPI	CAN 2.0B	I²S	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

GD32VF103 Series 32-bit RISC-V Main-Stream MCU Selection Guide

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	U(S)ART +UART	I²C	SPI	CAN 2.0B	USB 2.0 FS	I²S	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

Entry-Level MCU

GD32E23x Series 32-bit Arm® Cortex®-M23 Entry-Level MCU Selection Guide



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	U(S)ART	I ² C	SPI	USB 2.0 FS	I ² S	Comp	OP-AMP	12bit ADC Units (CHs)	12bit DAC Units	
GD32E235	GD32E235F4P6TR	72	16K	4K	up to 15		4	1	1	1	2	1	1	1	1		1	1		1(9)		TSSOP20
	GD32E235F6P6TR	72	32K	6K	up to 15		4	1	1	1	2	1	2	1	1		1	1		1(9)		TSSOP20
	GD32E235F8P6TR	72	64K	8K	up to 15		4	1	1	1	2	1	2	2	2		1	1		1(9)		TSSOP20
	GD32E235F4V6TR	72	16K	4K	up to 15		4	1	1	1	2	1	1	1	1		1	1		1(9)		LGA20
	GD32E235F6V6TR	72	32K	6K	up to 15		4	1	1	1	2	1	2	1	1		1	1		1(9)		LGA20
	GD32E235F8V6TR	72	64K	8K	up to 15		4	1	1	1	2	1	2	2	2		1	1		1(9)		LGA20
	GD32E235E8P6TR	72	64K	8K	up to 19		4	1	1	1	2	1	2	2	2		1	1		1(10)		TSSOP24
	GD32E235G4U6TR	72	16K	4K	up to 23		4	1	1	1	2	1	1	1	1		1	1		1(10)		QFN28
	GD32E235G6U6TR	72	32K	6K	up to 23		4	1	1	1	2	1	2	1	1		1	1		1(10)		QFN28
	GD32E235G8U6TR	72	64K	8K	up to 23		5	1	1	1	2	1	2	2	2		1	1		1(10)		QFN28
	GD32E235GBU7TR	72	128K	16K	up to 23		5	1	1	1	2	1	2	2	2		1	1		1(10)		QFN28
	GD32E235K4U6	72	16K	4K	up to 27		4	1	1	1	2	1	1	1	1		1	1		1(10)		QFN32
	GD32E235K6U6	72	32K	6K	up to 27		4	1	1	1	2	1	2	1	1		1	1		1(10)		QFN32
	GD32E235K8U6	72	64K	8K	up to 27		5	1	1	1	2	1	2	2	2		1	1		1(10)		QFN32
	GD32E235K8U7	72	64K	8K	up to 27		5	1	1	1	2	1	2	2	2		1	1		1(10)		QFN32
	GD32E235KBU6	72	128K	16K	up to 27		5	1	1	1	2	1	2	2	2		1	1		1(10)		QFN32
	GD32E235K4T6	72	16K	4K	up to 25		4	1	1	1	2	1	1	1	1		1	1		1(10)		LQFP32
	GD32E235K6T6	72	32K	6K	up to 25		4	1	1	1	2	1	2	1	1		1	1		1(10)		LQFP32
	GD32E235K8T6	72	64K	8K	up to 25		5	1	1	1	2	1	2	2	2		1	1		1(10)		LQFP32
	GD32E235KBT6	72	128K	16K	up to 25		5	1	1	1	2	1	2	2	2		1	1		1(10)		LQFP32
	GD32E235CBO6	72	128K	16K	up to 39		5	1	1	1	2	1	2	2	2		1	1		1(10)		QFN48
	GD32E235C4T6	72	16K	4K	up to 39		4	1	1	1	2	1	1	1	1		1	1		1(10)		LQFP48
	GD32E235C6T6	72	32K	6K	up to 39		4	1	1	1	2	1	2	1	1		1	1		1(10)		LQFP48
	GD32E235C8T6	72	64K	8K	up to 39		5	1	1	1	2	1	2	2	2		1	1		1(10)		LQFP48
	GD32E235C8T7	72	64K	8K	up to 39		5	1	1	1	2	1	2	2	2		1	1		1(10)		LQFP48
	GD32E235CBT6	72	128K	16K	up to 39		5	1	1	1	2	1	2	2	2		1	1		1(10)		LQFP48
	GD32E235CBT7	72	128K	16K	up to 39		5	1	1	1	2	1	2	2	2		1	1		1(10)		LQFP48
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
	GD32E230E8P6TR	72	64K	8K	up to 19		4	1	1	1	2	1	2	2	2		1	1		1(10)		TSSOP24
	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
	GD32E230K6T6	72	32K	6K	up to 25		4	1	1	1	2	1	2	1	1		1	1		1(10)		LQFP32
	GD32E230K8T6	72	64K	8K	up to 25		5	1	1	1	2	1	2	2	2		1	1		1(10)		LQFP32
	GD32E230C4T6	72	16K	4K	up to 39		4	1	1	1	2	1	1	1	1		1	1		1(10)		LQFP48
	GD32E230C6T6	72	32K	6K	up to 39		4	1	1	1	2	1	2	1	1		1	1		1(10)		LQFP48
	GD32E230C8T6	72	64K	8K	up to 39		5	1	1	1	2	1	2	2	2		1	1		1(10)		LQFP48

Entry-Level MCU

GD32F3x0 Series 32-bit Arm® Cortex®-M4 Entry-Level MCU Selection Guide



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	U(S)ART	I²C	SPI	USB 2.0 FS	I²S	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			1(9)		TSSOP20
	GD32F310F6P6TR	72	32K	6K	up to 15		4	1		1	2	1	2	1	1		1			1(9)		TSSOP20
	GD32F310F8P6TR	72	64K	8K	up to 15		4	1		1	2	1	2	2	2		1			1(9)		TSSOP20
	GD32F310G8U6TR	72	64K	8K	up to 23		5	1		1	2	1	2	2	2		1			1(10)		QFN28
	GD32F310K8U6	72	64K	8K	up to 27		5	1		1	2	1	2	2	2		1			1(10)		QFN32
	GD32F310K6T6	72	32K	6K	up to 25		4	1		1	2	1	2	1	1		1			1(10)		LQFP32
	GD32F310K8T6	72	64K	8K	up to 25		5	1		1	2	1	2	2	2		1			1(10)		LQFP32
	GD32F310C8T6	72	64K	8K	up to 39		5	1		1	2	1	2	2	2		1			1(10)		LQFP48
	GD32F310CBT6	72	128K	16K	up to 39		5	1		1	2	1	2	2	2		1			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 25	1	4	1		1	2	1	1	1	1					1(10)		LQFP32
	GD32F330K6T6	84	32K	4K	up to 25	1	4	1		1	2	1	2	1	1					1(10)		LQFP32
	GD32F330K8T6	84	64K	8K	up to 25	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	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	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	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	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	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	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	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	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	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	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	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	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	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	2	OTG	1	1	2	1(16)	1	LQFP64

Entry-Level MCU

GD32F1x0 Series 32-bit Arm® Cortex®-M3 Entry-Level MCU Selection Guide



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	U(S)ART	I²C	SPI	USB 2.0 FS	I²S	CEC	12bit ADC Units (CHs)	12bit DAC Units	
GD32F130	GD32F130F4P6TR	48	16K	4K	up to 15	1	4		1	1	2	1	1	1	1				1(9)		TSSOP20
	GD32F130F6P6TR	48	32K	4K	up to 15	1	4		1	1	2	1	2	1	1				1(9)		TSSOP20
	GD32F130F8P6TR	48	64K	8K	up to 15	1	4		1	1	2	1	2	2	2				1(9)		TSSOP20
	GD32F130G4U6TR	48	16K	4K	up to 23	1	4		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
GD32F150	GD32F130R8T6	48	64K	8K	up to 55	1	5		1	1	2	1	2	2	2				1(16)		LQFP64
	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

Low-Power Consumption MCU

GD32L23x Series 32-bit Arm® Cortex®-M23 Low-Power Consumption MCU Selection Guide



Series	Part No.	Max Speed (MHz)	Memory (Bytes)		I/O	Timer								Connectivity										Analog Interface		Package
			Flash	SRAM		LPTM (32bit)	LPTM (16bit)	GPTM (16bit)	Advanced TM (16bit)	Basic TM (16bit)	SysTick (24bit)	WDG	RTC	USART +UART	LP UART	I²C	SPI	USB 2.0	CAN 2.0B	I²S	Comp	Segment LCD	12bit ADC Units (CHs)	12bit DAC Units		
GD32L235	GD32L235E8Y6TR	64	64K	12K	up to 23		2	5	1	2	1	2	1	2+1	2	3	2		1	1	2		1(10)	1	WLCSP25	
	GD32L235EBY6TR	64	128K	24K	up to 23		2	6	1	2	1	2	1	2+2	2	3	2		1	1	2		1(10)	1	WLCSP25	
	GD32L235K8Q6	64	64K	12K	up to 29		2	5	1	2	1	2	1	2+1	2	3	2	FS	1	1	2		1(10)	1	QFN32	
	GD32L235KBQ6	64	128K	24K	up to 29		2	6	1	2	1	2	1	2+2	2	3	2	FS	1	1	2		1(10)	1	QFN32	
	GD32L235K8Q6P	64	64K	12K	up to 28		2	5	1	2	1	2	1	2+1	2	3	2	FS	1	1	2		1(10)	1	QFN32	
	GD32L235KBQ6P	64	128K	24K	up to 28		2	6	1	2	1	2	1	2+2	2	3	2	FS	1	1	2		1(10)	1	QFN32	
	GD32L235K8T6	64	64K	12K	up to 27		2	5	1	2	1	2	1	2+1	2	3	2	FS	1	1	2		1(10)	1	LQFP32	
	GD32L235KBT6	64	128K	24K	up to 27		2	6	1	2	1	2	1	2+2	2	3	2	FS	1	1	2		1(10)	1	LQFP32	
	GD32L235C8O6	64	64K	12K	up to 43		2	5	1	2	1	2	1	2+1	2	3	2	FS	1	1	2		1(10)	1	QFN48	
	GD32L235CBO6	64	128K	24K	up to 43		2	6	1	2	1	2	1	2+2	2	3	2	FS	1	1	2		1(10)	1	QFN48	
	GD32L235C8T6	64	64K	12K	up to 43		2	5	1	2	1	2	1	2+1	2	3	2	FS	1	1	2		1(10)	1	LQFP48	
	GD32L235CBT6	64	128K	24K	up to 43		2	6	1	2	1	2	1	2+2	2	3	2	FS	1	1	2		1(10)	1	LQFP48	
	GD32L235R8O6	64	64K	12K	up to 59		2	5	1	2	1	2	1	2+1	2	3	2	FS	1	1	2	8*28/4*32	1(16)	1	QFN64	
	GD32L235RBO6	64	128K	24K	up to 59		2	6	1	2	1	2	1	2+2	2	3	2	FS	1	1	2	8*28/4*32	1(16)	1	QFN64	
	GD32L235R8T6	64	64K	12K	up to 59		2	5	1	2	1	2	1	2+1	2	3	2	FS	1	1	2	8*28/4*32	1(16)	1	LQFP64	
	GD32L235RBT6	64	128K	24K	up to 59		2	6	1	2	1	2	1	2+2	2	3	2	FS	1	1	2	8*28/4*32	1(16)	1	LQFP64	
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	
	GD32L233CCY6TR	64	256K	32K	up to 39	1		4	0	2	1	2	1	2+2	1	2	2	FS		1	2		1(10)	1	WLCSP49	
	GD32L233RCO6	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	QFN64	
	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	

Wireless MCU

GD32VW553 Series 32-bit RISC-V Wireless MCU Selection Guide



Series	Part No.	Max Speed (MHz)	Memory (Bytes)		I/O	Timer							Connectivity													Analog Interface		Package
			Flash	SRAM		GPTM (32bit)	GPTM (16bit)	Advanced TM (16bit)	Basic TM (16bit)	SysTick (64bit)	WDG	RTC	U(S)ART	I²C	SPI	USB 2.0 FS	I²S	QSPI	CAU	HAU	PKCAU	TRNG	IEEE 802.11	Bluetooth	12bit ADC Units (CHs)	12bit DAC Units		
GD32VW553	GD32VW553KIQ7	160	2048K	320K	up to 21	2	2	1	1	1	2	1	1+2	2	1			1	•	•	•	•	(b/g/n/ax) HE20	BLE 5.2	1(9)		QFN32	
	GD32VW553KMQ7	160	4096K	320K	up to 21	2	2	1	1	1	2	1	1+2	2	1			1	•	•	•	•	(b/g/n/ax) HE20	BLE 5.2	1(9)		QFN32	
	GD32VW553HIQ7	160	2048K	320K	up to 28	2	2	1	1	1	2	1	1+2	2	1			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			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			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			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			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			1	•	•	•	•	(b/g/n/ax) HE20	BLE 5.2	1(9)		QFN40	

GD32W515 Series 32-bit Arm® Cortex®-M33 Wireless MCU Selection Guide

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	U(S)ART	I²C	SPI	USB 2.0 FS	I²S	SDIO	IEEE 802.11	QSPI	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	

Automotive MCU

GD32A7 Series 32-bit Arm® Cortex®-M7 Automotive MCU Selection Guide



Series	Part No.	Max Speed (MHz)	Core Type	Memory (Bytes)			I/O	Timer						Connectivity										Analog Interface				Functional Safety	Security	Supply Voltage (V)	Temperature Range(TA)	Package
				Flash	Data-Flash	SRAM		GPTM (16bit)	Advanced TM (16bit)	Basic TM (32bit)	SysTick (24bit)	WDG	RTC	USART	I²C	SPI	QSPI	CAN-FD	LIN	Ethernet	MFCOM	SENT	12bit ADC Units	12bit ADC Channels	COMP	12bit DAC Units						
GD32A711	GD32A711ART3TA	120	Cortex-M7	1024K	128K+96K	128K	Up to 54	1	4	2	1	2	1	4	2	4	0	5	4	0	0	0	2	27	2	2	ISO26262 ASIL-B	Evita-full+SM2/3/4	2.7~5.5	-40~125°C	LQFP64	
	GD32A711AVT3TA	120	Cortex-M7	1024K	128K+96K	128K	Up to 83	1	8	2	1	2	1	4	2	5	1	6	6	0	0	0	2	40	2	2	ISO26262 ASIL-B	Evita-full+SM2/3/4	2.7~5.5	-40~125°C	LQFP100	
	GD32A711AZT3TA	120	Cortex-M7	1024K	128K+96K	128K	Up to 113	1	8	2	1	2	1	4	2	6	1	6	6	0	0	0	2	48	2	2	ISO26262 ASIL-B	Evita-full+SM2/3/4	2.7~5.5	-40~125°C	LQFP144	
GD32A712	GD32A712AVT3TA	120	Cortex-M7	2048K	128K+96K	256K	Up to 83	1	8	2	1	2	1	4	2	5	1	6	6	0	0	0	2	40	2	2	ISO26262 ASIL-B	Evita-full+SM2/3/4	2.7~5.5	-40~125°C	LQFP100	
	GD32A712AZT3TA	120	Cortex-M7	2048K	128K+96K	256K	Up to 113	1	8	2	1	2	1	4	2	6	1	6	6	0	0	0	2	48	2	2	ISO26262 ASIL-B	Evita-full+SM2/3/4	2.7~5.5	-40~125°C	LQFP144	
	GD32A712AIT3TA	120	Cortex-M7	2048K	128K+96K	256K	Up to 146	1	8	2	1	2	1	4	2	6	1	6	6	0	0	0	2	48	2	2	ISO26262 ASIL-B	Evita-full+SM2/3/4	2.7~5.5	-40~125°C	LQFP176	

Series	Part No.	Max Speed (MHz)	Core Type	Memory (Bytes)			I/O	Timer						Connectivity										Analog Interface				Functional Safety	Security	Supply Voltage (V)	Temperature Range(TA)	Package
				Flash	Data-Flash	SRAM		GPTM (16bit)	Advanced TM (16bit)	Basic TM (32bit)	SysTick (24bit)	WDG	RTC	USART	I²C	SPI	I²S	QSPI	CAN-FD	LIN	Ethernet	MFCOM	SENT	12bit ADC Units	12bit ADC Channels	12bit DAC Units	COMP					
GD32A714	GD32A714AVT3TA	160	Cortex-M7	4096K	128K+96K	512K	Up to 80	2	8	2	1	4	1	6	2	8	4	1	6	8	1	1	6	3	40	2	2	ISO26262 ASIL-B	Evita-full+SM2/3/4	2.97~5.5	-40~125°C	LQFP100
	GD32A714AZT3TA	160	Cortex-M7	4096K	128K+96K	512K	Up to 114	2	8	2	1	4	1	6	2	8	4	1	7	11	1	1	6	3	54	2	2	ISO26262 ASIL-B	Evita-full+SM2/3/4	2.97~5.5	-40~125°C	LQFP144
	GD32A714AIT3TA	160	Cortex-M7	4096K	128K+96K	512K	Up to 146	2	8	2	1	4	1	6	2	8	4	1	8	12	1	1	6	3	72	2	2	ISO26262 ASIL-B	Evita-full+SM2/3/4	2.97~5.5	-40~125°C	LQFP176
	GD32A714AXJ3TA	160	Cortex-M7	4096K	128K+96K	512K	Up to 218	2	8	2	1	4	1	6	2	8	4	1	8	12	1	1	6	3	72	2	2	ISO26262 ASIL-B	Evita-full+SM2/3/4	2.97~5.5	-40~125°C	BGA257
GD32A722	GD32A722AZT3TA	160	Dual Cortex-M7	2048K	128K+96K	256K	Up to 114	2	8	2	2	4	1	6	2	8	4	1	7	11	1	1	6	3	54	2	2	ISO26262 ASIL-B	Evita-full+SM2/3/4	2.97~5.5	-40~125°C	LQFP144
	GD32A722AIT3TA	160	Dual Cortex-M7	2048K	128K+96K	256K	Up to 146	2	8	2	2	4	1	6	2	8	4	1	8	12	1	1	6	3	72	2	2	ISO26262 ASIL-B	Evita-full+SM2/3/4	2.97~5.5	-40~125°C	LQFP176
	GD32A722AXJ3TA	160	Dual Cortex-M7	2048K	128K+96K	256K	Up to 218	2	8	2	2	4	1	6	2	8	4	1	8	12	1	1	6	3	72	2	2	ISO26262 ASIL-B	Evita-full+SM2/3/4	2.97~5.5	-40~125°C	BGA257
GD32A724	GD32A724AZT3TA	160	Dual Cortex-M7	4096K	128K+96K	512K	Up to 114	2	8	2	2	4	1	6	2	8	4	1	7	11	1	1	6	3	54	2	2	ISO26262 ASIL-B	Evita-full+SM2/3/4	2.97~5.5	-40~125°C	LQFP144
	GD32A724AIT3TA	160	Dual Cortex-M7	4096K	128K+96K	512K	Up to 146	2	8	2	2	4	1	6	2	8	4	1	8	12	1	1	6	3	72	2	2	ISO26262 ASIL-B	Evita-full+SM2/3/4	2.97~5.5	-40~125°C	LQFP176
	GD32A724AXJ3TA	160	Dual Cortex-M7	4096K	128K+96K	512K	Up to 218	2	8	2	2	4	1	6	2	8	4	1	8	12	1	1	6	3	72	2	2	ISO26262 ASIL-B	Evita-full+SM2/3/4	2.97~5.5	-40~125°C	BGA257
GD32A741	GD32A741AVT3TA	160	Lockstep Cortex-M7	1024K	128K+96K	128K	Up to 80	2	8	2	1	4	1	6	2	8	4	1	6	8	1	1	6	3	40	2	2	ISO26262 ASIL-D	Evita-full+SM2/3/4	2.97~5.5	-40~125°C	LQFP100
	GD32A741AZT3TA	160	Lockstep Cortex-M7	1024K	128K+96K	128K	Up to 114	2	8	2	1	4	1	6	2	8	4	1	7	11	1	1	6	3	54	2	2	ISO26262 ASIL-D	Evita-full+SM2/3/4	2.97~5.5	-40~125°C	LQFP144
	GD32A741AIT3TA	160	Lockstep Cortex-M7	1024K	128K+96K	128K	Up to 146	2	8	2	1	4	1	6	2	8	4	1	8	12	1	1	6	3	72	2	2	ISO26262 ASIL-D	Evita-full+SM2/3/4	2.97~5.5	-40~125°C	LQFP176
GD32A742	GD32A742AVT3TA	160	Lockstep Cortex-M7	2048K	128K+96K	256K	Up to 80	2	8	2	1	4	1	6	2	8	4	1	6	8	1	1	6	3	40	2	2	ISO26262 ASIL-D	Evita-full+SM2/3/4	2.97~5.5	-40~125°C	LQFP100
	GD32A742AZT3TA	160	Lockstep Cortex-M7	2048K	128K+96K	256K	Up to 114	2	8	2	1	4	1	6	2	8	4	1	7	11	1	1	6	3	54	2	2	ISO26262 ASIL-D	Evita-full+SM2/3/4	2.97~5.5	-40~125°C	LQFP144
	GD32A742AIT3TA	160	Lockstep Cortex-M7	2048K	128K+96K	256K	Up to 146	2	8	2	1	4	1	6	2	8	4	1	8	12	1	1	6	3	72	2	2	ISO26262 ASIL-D	Evita-full+SM2/3/4	2.97~5.5	-40~125°C	LQFP176
GD32A744	GD32A744AVT3TA	160	Lockstep Cortex-M7	4096K	128K+96K	512K	Up to 80	2	8	2	1	4	1	6	2	8	4	1	6	8	1	1	6	3	40	2	2	ISO26262 ASIL-D	Evita-full+SM2/3/4	2.97~5.5	-40~125°C	LQFP100
	GD32A744AZT3TA	160	Lockstep Cortex-M7	4096K	128K+96K	512K	Up to 114	2	8	2	1	4	1	6	2	8	4	1	7	11	1	1	6	3	54	2	2	ISO26262 ASIL-D	Evita-full+SM2/3/4	2.97~5.5	-40~125°C	LQFP144
	GD32A744AIT3TA	160	Lockstep Cortex-M7	4096K	128K+96K	512K	Up to 146	2	8	2	1	4	1	6	2	8	4	1	8	12	1	1	6	3	72	2	2	ISO26262 ASIL-D	Evita-full+SM2/3/4	2.97~5.5	-40~125°C	LQFP176
	GD32A744AXJ3TA	160	Lockstep Cortex-M7	4096K	128K+96K	512K	Up to 218	2	8	2	1	4	1	6	2	8	4	1	8	12	1	1	6	3	72	2	2	ISO26262 ASIL-D	Evita-full+SM2/3/4	2.97~5.5	-40~125°C	BGA257

Automotive MCU

GD32A5 Series 32-bit Arm® Cortex®-M33 Automotive MCU Selection Guide



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)	Basic TM (16bit)	SysTick (24bit)	WDG	RTC	U(S)ART /LIN	I²C	SPI	CAN2.0B	I²S	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	2(32)	1	LQFP100

GD32 MCU Package Options

LQFP176 (24*24mm)	LQFP144 (20*20mm)	LQFP100 (14*14mm)	LQFP64 (10*10mm)	LQFP48 (7*7mm)
LQFP32 (7*7mm)	BGA240 (14*14mm)	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)	TSSOP24 (7.8*4.4mm)	TSSOP20 (6.5*4.4mm)	LGA20 (3*3mm)
WLCSP49 (3*3mm)	WLCSP25 (2*2mm)			

GD32 Development Ecosystem

armKEIL

SEGGER

iar

EmbeeIDE

CrossWorks

PE
micro

ARM
mbed
enabled

aws

Microsoft Azure

freeRTOS

RT-Thread

TencentOS
Tiny

0x5
HEX-Five

sensory

Algocraft

ELNEC

SMH
Technologies

创芯工坊

ASHLING

LAUTERBACH
DEVELOPMENT TOOLS

LVGL

Embedded Wizard
GUI Solutions by TARA Systems

Qt Group

PX5
[RTOS]

TUXERA

DAB-EMBEDDED

ProMik
Trusted Solutions

XELTEK
Super901 Automated Equipment Company

Wellon

ZLG 致远电子

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WiFi
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