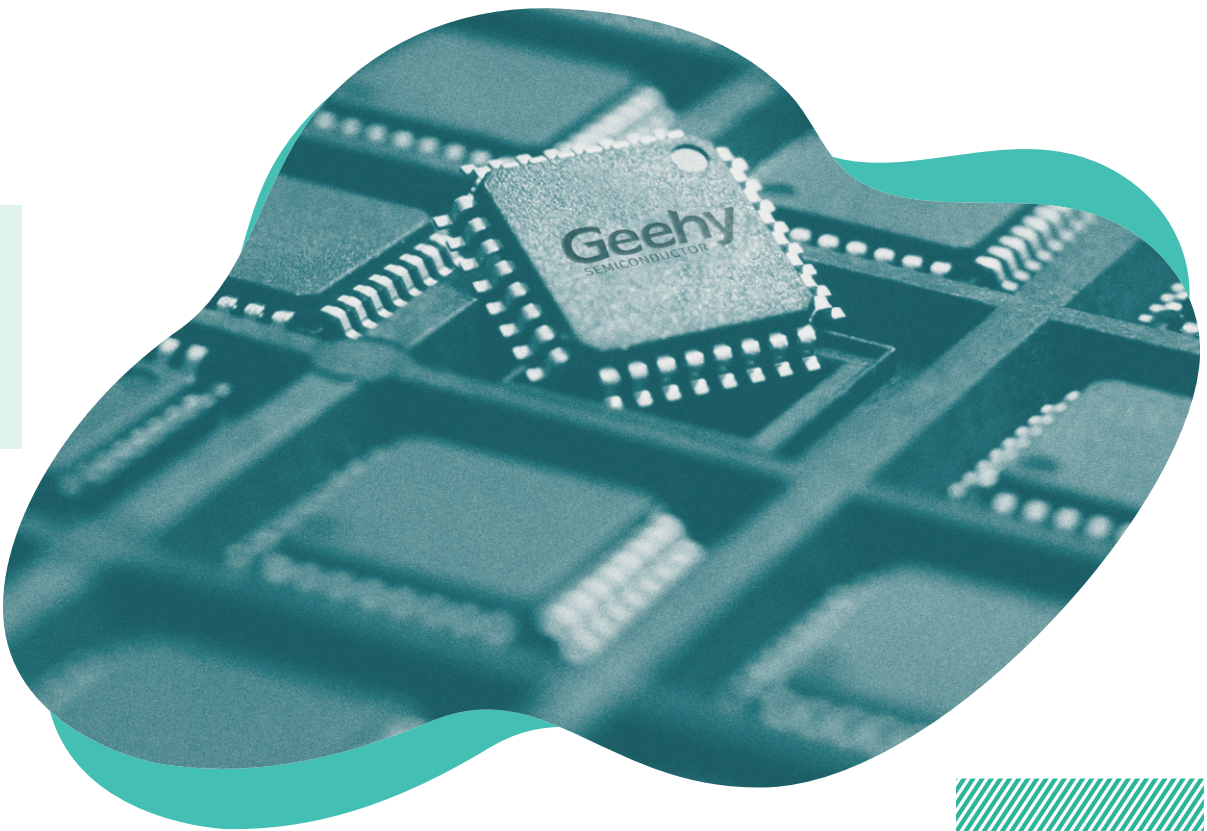
Geehy SEMICONDUCTOR

PRODUCT SELECTION GUIDE

32-bit APM32 Industrial&Automotive Grade MCU
GW88 series low power BLE SoC

Based on Arm® Cortex®M0+/M3/M4



APM32 Series Industrial Grade MCUs — Arm® Cortex®-M0+

Part No.	Frequency(MHz)	FLASH(KB)	SRAM(KB)	EMMC/SDRAM	FPU	I/Os	Vmin(V)	Vmax(V)	Timer								Analog Interface						Connectivity								Package
									GPTMR(16bit)	GP TMR(32bit)	Advanced TMR(16bit)	Basic TMR	Systick(24bit)	IWDG	WWDG	RTC	ADC 12-bit Cell	ADC 12-bit channels	DAC 12-bit Cell	DAC 12-bit channels	Analog Comparator	TSC (Channels)	SPI	I2S	I2C	U(S)ART	CAN	SDIO	USB Device	CEC	
APM32F091CBT6	48	128	32	0	0	38	2	3.6	5	1	1	2	1	1	1	1	1	10	1	2	2	24	2	2	2	6	1	0	0	1	LQFP48
APM32F091CBU6	48	128	32	0	0	38	2	3.6	5	1	1	2	1	1	1	1	1	10	1	2	2	24	2	2	2	6	1	0	0	1	QFN48
APM32F091CCT6	48	256	32	0	0	38	2	3.6	5	1	1	2	1	1	1	1	1	10	1	2	2	24	2	2	2	6	1	0	0	1	LQFP48
APM32F091CCU6	48	256	32	0	0	38	2	3.6	5	1	1	2	1	1	1	1	1	10	1	2	2	24	2	2	2	6	1	0	0	1	QFN48
APM32F091RBT6	48	128	32	0	0	52	2	3.6	5	1	1	2	1	1	1	1	1	16	1	2	2	24	2	2	2	8	1	0	0	1	LQFP64
APM32F091RCT6	48	256	32	0	0	52	2	3.6	5	1	1	2	1	1	1	1	1	16	1	2	2	24	2	2	2	8	1	0	0	1	LQFP64
APM32F091VBT6	48	128	32	0	0	88	2	3.6	5	1	1	2	1	1	1	1	1	16	1	2	2	24	2	2	2	8	1	0	0	1	LQFP100
APM32F091VCT6	48	256	32	0	0	88	2	3.6	5	1	1	2	1	1	1	1	1	16	1	2	2	24	2	2	2	8	1	0	0	1	LQFP100
APM32F072VBT6	48	128	16	0	0	87	2	3.6	5	1	1	2	1	1	1	1	1	16	1	2	2	24	2	2	2	4	1	0	1	1	LQFP100
APM32F072V8T6	48	64	16	0	0	87	2	3.6	5	1	1	2	1	1	1	1	1	16	1	2	2	24	2	2	2	4	1	0	1	1	LQFP100
APM32F072RBT6	48	128	16	0	0	51	2	3.6	5	1	1	2	1	1	1	1	1	16	1	2	2	18	2	2	2	4	1	0	1	1	LQFP64
APM32F072R8T6	48	64	16	0	0	51	2	3.6	5	1	1	2	1	1	1	1	1	16	1	2	2	18	2	2	2	4	1	0	1	1	LQFP64
APM32F072CBU6	48	128	16	0	0	37	2	3.6	5	1	1	2	1	1	1	1	1	10	1	2	2	17	2	2	2	4	1	0	1	1	QFN 48
APM32F072C8U6	48	64	16	0	0	37	2	3.6	5	1	1	2	1	1	1	1	1	10	1	2	2	17	2	2	2	4	1	0	1	1	QFN48
APM32F072CBT6	48	128	16	0	0	37	2	3.6	5	1	1	2	1	1	1	1	1	10	1	2	2	17	2	2	2	4	1	0	1	1	LQFP48
APM32F072CBT7	48	128	16	0	0	37	2	3.6	5	1	1	2	1	1	1	1	1	10	1	2	2	17	2	2	2	4	1	0	1	1	LQFP48
APM32F072C8T6	48	64	16	0	0	37	2	3.6	5	1	1	2	1	1	1	1	1	10	1	2	2	17	2	2	2	4	1	0	1	1	LQFP48
APM32F071V8T6	48	64	16	0	0	87	2	3.6	5	1	1	2	1	1	1	1	1	16	1	2	2	24	2	2	2	4	0	0	0	1	LQFP100
APM32F071CBU6	48	128	16	0	0	37	2	3.6	5	1	1	2	1	1	1	1	1	10	1	2	2	17	2	2	2	4	0	0	0	1	QFN48
APM32F071CBT6	48	128	16	0	0	37	2	3.6	5	1	1	2	1	1	1	1	1	10	1	2	2	17	2	2	2	4	0	0	0	1	LQFP48
APM32F070RBT6	48	128	16	0	0	51	2.4	3.6	5	0	1	2	1	1	1	1	1	16	0	0	0	0	2	0	2	4	0	0	1	0	LQFP64
APM32F070CBT6	48	128	16	0	0	37	2.4	3.6	5	0	1	2	1	1	1	1	1	10	0	0	0	0	2	0	2	4	0	0	1	0	LQFP48
APM32F051K6T6	48	32	8	0	0	25	2	3.6	5	1	1	1	1	1	1	1	1	10	1	1	2	18	1	1	1	2	0	0	0	1	LQFP32
APM32F051K6U6	48	32	8	0	0	27	2	3.6	5	1	1	1	1	1	1	1	1	10	1	1	2	18	1	1	1	2	0	0	0	1	QFN32
APM32F051K8T6	48	64	8	0	0	25	2	3.6	5	1	1	1	1	1	1	1	1	10	1	1	2	18	1	1	1	2	0	0	0	1	LQFP32
APM32F051K8U6	48	64	8	0	0	27	2	3.6	5	1	1	1	1	1	1	1	1	10	1	1	2	18	1	1	1	2	0	0	0	1	QFN32
APM32F051C6T6	48	32	8	0	0	39	2	3.6	5	1	1	1	1	1	1	1	1	10	1	1	2	18	1	1	1	2	0	0	0	1	LQFP48
APM32F051C6U6	48	32	8	0	0	39	2	3.6	5	1	1	1	1	1	1	1	1	10	1	1	2	18	1	1	1	2	0	0	0	1	QFN48
APM32F051C8T6	48	64	8	0	0	39	2	3.6	5	1	1	1	1	1	1	1	1	10	1	1	2	18	2	1	2	2	0	0	0	1	LQFP48
APM32F051C8U6	48	64	8	0	0	39	2	3.6	5	1	1	1	1	1	1	1	1	10	1	1	2	18	2	1	2	2	0	0	0	1	QFN48
APM32F051R6T6	48	32	8	0	0	55	2	3.6	5	1	1	1	1	1	1	1	1	16	1	1	2	18	2	1	2	2	0	0	0	1	LQFP64
APM32F051R8T6	48	64	8	0	0	55	2	3.6	5	1	1	1	1	1	1	1	1	16	1	1	2	18	2	1	2	2	0	0	0	1	LQFP64
APM32F030F6P6	48	32	4	0	0	16	2	3.6	4	0	1	0	1	1	1	1	1	8	0	0	0	0	1	0	1	1	0	0	0	0	TSSOP20
APM32F030K6T6	48	32	4	0	0	26	2	3.6	4	0	1	0	1	1	1	1	1	10	0	0	0	0	1	0	1	1	0	0	0	0	LQFP32
APM32F030K6T7	48	32	4	0	0	26	2	3.6	4	0	1	0	1	1	1	1	1	10	0	0	0	0	1	0	1	1	0	0	0	0	LQFP32
APM32F030K6U6	48	32	4	0	0	26	2	3.6	4	0	1	0	1	1	1	1	1	10	0	0	0	0	1	0	1	1	0	0	0	0	QFN32
APM32F030K8T6	48	64	8	0	0	26	2	3.6	4	0	1	0	1	1	1	1	1	10	0	0	0	0	1	0	1	1	0	0	0	0	LQFP32
APM32F030C6T6	48	32	4	0	0	39	2	3.6	4	0	1	0	1	1	1	1	1	10	0	0	0	0	1	0	1	1	0	0	0	0	LQFP48
APM32F030C8T6	48	64	8	0	0	39	2	3.6	5	0	1	1	1	1	1	1	1	10	0	0	0	0	2	0	2	2	0	0	0	0	LQFP48
APM32F030R8T6	48	64	8	0	0	55	2	3.6	5	0	1	1	1	1	1	1	1	16	0	0	0	0	2	0	2	2	0	0	0	0	LQFP64
APM32F030CCT6	48	256	32	0	0	37	2	3.6	5	0	1	2	1	1	1	1	1	10	0	0	0	0	2	0	2	6	0	0	0	0	LQFP48
APM32F030RCT6	48	256	32	0	0	51	2	3.6	5	0	1	2	1	1	1	1	1	16	0	0	0	0	2	0	2	6	0	0	0	0	LQFP64
APM32F003F4P6	48	16	2	0	0	16	2	5.5	1	0	2	1	1	1	1	0	1	8	0	0	0	0	1	0	1	3	0	0	0	0	TSSOP20
APM32F003F6P6	48	32	4	0	0	16	2	5.5	1	0	2	1	1	1	1	0	1	8	0	0	0	0	1	0	1	3	0	0	0	0	TSSOP20
APM32F003F4U6	48	16	2	0	0	16	2	5.5	1	0	2	1	1	1	1	0	1	8	0	0	0	0	1	0	1	3	0	0	0	0	QFN20
APM32F003F6U6	48	32	4	0	0	16	2	5.5	1	0	2	1	1	1	1	0	1	8	0	0	0	0	1	0	1	3	0	0	0	0	QFN20
APM32F003F4M6	48	16	2	0	0	16	2	5.5	1	0	2	1	1	1	1	0	1	8	0	0	0	0	1	0	1	3	0	0	0	0	SOP20
APM32F003F6M6	48	32	4	0	0	16	2	5.5	1	0	2	1	1	1	1	0	1	8	0	0	0	0	1	0	1	3	0	0	0	0	SOP20
APM32F003F6P7	48	32	4	0	0	16	2	5.5	1	0	2	1	1	1	1	0	1	8	0	0	0	0	1	0	1	3	0	0	0	0	TSSOP20
APM32F003F6U7	48	32	4	0	0	16	2	5.5	1	0	2	1	1	1	1	0	1	8	0	0	0	0	1	0	1	3	0	0	0	0	QFN20

APM32 Series Industrial Grade MCUs — Arm® Cortex®-M3

Part No.	Frequency(MHz)	FLASH(KB)	SRAM(KB)	SDRAM	FPU	I/Os	Vmin(V)	Vmax(V)	Timer								Analog Interface						Connectivity								Package
									GPTMR(16bit)	GP TMR(32bit)	Advanced TMR(16bit)	Basic TMR	Systick(24bit)	IWDG	WWDG	RTC	ADC 12-bit Cell	ADC 12-bit channels	DAC 12-bit Cell	DAC 12-bit channels	Analog Comparator	EMMC	SPI	I2S	I2C	U(S)ART	CAN	SDIO	USB Device	CEC	
APM32E103CCU6	120	256	64	0	1	37	2	3.6	4	0	1	2	1	1	1	1	2	10	2	2	0	0	3	2	2	3	2	0	1	0	QFN48
APM32E103CEU6	120	512	128	0	1	37	2	3.6	4	0	1	2	1	1	1	1	2	10	2	2	0	0	3	2	2	3	2	0	1	0	QFN48
APM32E103CCT6	120	256	64	0	1	37	2	3.6	4	0	1	2	1	1	1	1	2	10	2	2	0	0	3	2	2	3	2	0	1	0	LQFP48
APM32E103CET6	120	512	128	0	1	37	2	3.6	4	0	1	2	1	1	1	1	2	10	2	2	0	0	3	2	2	3	2	0	1	0	LQFP48
APM32E103RCT6	120	256	64	0	1	51	2	3.6	4	0	2	2	1	1	1	1	3	16	2	2	0	0	3	2	2	3+2	2	1	1	0	LQFP64
APM32E103RET6	120	512	128	0	1	51	2	3.6	4	0	2	2	1	1	1	1	3	16	2	2	0	0	3	2	2	3+2	2	1	1	0	LQFP64
APM32E103VCT6	120	256	64	0	1	80	2	3.6	4	0	2	2	1	1	1	1	3	16	2	2	0	1	3	2	2	3+2	2	1	1	0	LQFP100
APM32E103VET6	120	512	128	0	1	80	2	3.6	4	0	2	2	1	1	1	1	3	16	2	2	0	1	3	2	2	3+2	2	1	1	0	LQFP100
APM32E103ZCT6	120	256	64	1	1	112	2	3.6	4	0	2	2	1	1	1	1	3	21	2	2	0	1	3	2	2	3+2	2	1	1	0	LQFP144
APM32E103ZET6	120	512	128	1	1	112	2	3.6	4	0	2	2	1	1	1	1	3	21	2	2	0	1	3	2	2	3+2	2	1	1	0	LQFP144
APM32F103T4U6	96	16	6	0	1	26	2	3.6	2	0	1	0	1	1	1	1	2	10	0	0	0	0	1	0	1	2	1	0	1	0	QFN36
APM32F103T6U6	96	32	10	0	1	26	2	3.6	2	0	1	0	1	1	1	1	2	10	0	0	0	0	1	0	1	2	1	0	1	0	QFN36
APM32F103T8U6	96	64	20	0	1	26	2	3.6	3	0	1	0	1	1	1	1	2	10	0	0	0	0	1	0	1	2	1	0	1	0	QFN36
APM32F103TBU6	96	128	20	0	1	26	2	3.6	3	0	1	0	1	1	1	1	2	10	0	0	0	0	1	0	1	2	1	0	1	0	QFN36
APM32F103C4T6	96	16	6	0	1	37	2	3.6	2	0	1	0	1	1	1	1	2	10	0	0	0	0	1	0	1	2	1	0	1	0	LQFP48
APM32F103C6T6	96	32	10	0	1	37	2	3.6	2	0	1	0	1	1	1	1	2	10	0	0	0	0	1	0	1	2	1	0	1	0	LQFP48
APM32F103C8T6	96	64	20	0	1	37	2	3.6	3	0	1	0	1	1	1	1	2	10	0	0	0	0	2	0	2	3	1	0	1	0	LQFP48
APM32F103CBT6	96	128	20	0	1	37	2	3.6	3	0	1	0	1	1	1	1	2	10	0	0	0	0	2	0	2	3	1	0	1	0	LQFP48
APM32F103R4T6	96	16	6	0	1	51	2	3.6	2	0	1	0	1	1	1	1	2	16	0	0	0	0	1	0	1	2	1	0	1	0	LQFP64
APM32F103R6T6	96	32	10	0	1	51	2	3.6	2	0	1	0	1	1	1	1	2	16	0	0	0	0	1	0	1	2	1	0	1	0	LQFP64
APM32F103R8T6	96	64	20	0	1	51	2	3.6	3	0	1	0	1	1	1	1	2	16	0	0	0	0	2	0	2	3	1	0	1	0	LQFP64
APM32F103RBT6	96	128	20	0	1	51	2	3.6	3	0	1	0	1	1	1	1	2	16	0	0	0	0	2	0	2	3	1	0	1	0	LQFP64
APM32F103V8T6	96	64	20	0	1	80	2	3.6	3	0	1	0	1	1	1	1	2	16	0	0	0	0	2	0	2	3	1	0	1	0	LQFP100
APM32F103VBT6	96	128	20	0	1	80	2	3.6	3	0	1	0	1	1	1	1	2	16	0	0	0	0	2	0	2	3	1	0	1	0	LQFP100
APM32F103CCT6	96	256	64	0	0	37	2	3.6	4	0	1	1	1	1	1	1	2	10	2	2	0	0	3	2	2	3	2	0	1	0	LQFP48
APM32F103RCT6	96	256	64	0	0	51	2	3.6	4	0	2	2	1	1	1	1	3	16	2	2	0	0	3	2	2	3+2	2	1	1	0	LQFP64
APM32F103VCT6	96	256	64	0	0	80	2	3.6	4	0	2	2	1	1	1	1	3	16	2	2	0	1	3	2	2	3+2	2	1	1	0	LQFP100
APM32F103RDT6	96	384	64	0	1	51	2	3.6	4	0	2	2	1	1	1	1	3	16	2	2	0	0	3	2	2	3+2	1	1	1	0	LQFP64
APM32F103RET6	96	512	128	0	1	51	2	3.6	4	0	2	2	1	1	1	1	3	16	2	2	0	0	3	2	2	3+2	1	1	1	0	LQFP64
APM32F103VDT6	96	384	64	0	1	80	2	3.6	4	0	2	2	1	1	1	1	3	16	2	2	0	1	3	2	2	3+2	1	1	1	0	LQFP100
APM32F103VET6	96	512	128	0	1	80	2	3.6	4	0	2	2	1	1	1	1	3	16	2	2	0	1	3	2	2	3+2	1	1	1	0	LQFP100
APM32F103VET7	96	512	128	0	1	80	2	3.6	4	0	2	2	1	1	1	1	3	16	2	2	0	1	3	2	2	3+2	1	1	1	0	LQFP100
APM32F103ZDT6	96	384	64	1	1	112	2	3.6	4	0	2	2	1	1	1	1	3	21	2	2	0	1	3	2	2	3+2	1	1	1	0	LQFP144
APM32F103ZET6	96	512	128	1	1	112	2	3.6	4	0	2	2	1	1	1	1	3	21	2	2	0	1	3	2	2	3+2	1	1	1	0	LQFP144

APM32 Series Industrial Grade MCUs — Arm® Cortex®-M4

Part No.	Frequency(MHz)	FLASH(KB)	SRAM(KB)	SDRAM	FPU	I/O	Voltage	Timer								Analog Interface				Connectivity									Security			Package
								GPTMR(16bit)	GP TMR(32bit)	Advanced TMR(16bit)	Basic TMR	Systick	IWDG	WWDG	RTC	ADC 12-bit Cell	ADC 12-bit channels	DAC 12-bit channels	EMMC	SPI	I2S	I2C	U/S/ART	CAN	SDIO	USB OTG FS	USB OTG HS	DCI	Ethernet	RNG	AES DES/TDES	BN/SM3/SM4	
APM32F407IGT6	168	1024	192+4	1	1	140	1.8~3.6	8	2	2	2	1	1	1	1	3	24	2	1	3	2	3	4+2	2	1	1	1+1	1	1	1	0	1	LQFP176
APM32F407IET6	168	512	192+4	1	1	140	1.8~3.6	8	2	2	2	1	1	1	1	3	24	2	1	3	2	3	4+2	2	1	1	1+1	1	1	1	0	1	LQFP176
APM32F407ZGT6	168	1024	192+4	0	1	114	1.8~3.6	8	2	2	2	1	1	1	1	3	24	2	1	3	2	3	4+2	2	1	1	1+1	1	1	1	0	1	LQFP144
APM32F407ZET6	168	512	192+4	0	1	114	1.8~3.6	8	2	2	2	1	1	1	1	3	24	2	1	3	2	3	4+2	2	1	1	1+1	1	1	1	0	1	LQFP144
APM32F407VGT6	168	1024	192+4	0	1	82	1.8~3.6	8	2	2	2	1	1	1	1	3	16	2	1	3	2	3	4+2	2	1	1	1+1	1	1	1	0	1	LQFP100
APM32F407VET6	168	512	192+4	0	1	82	1.8~3.6	8	2	2	2	1	1	1	1	3	16	2	1	3	2	3	4+2	2	1	1	1+1	1	1	1	0	1	LQFP100
APM32F407RGT6	168	1024	192+4	0	1	51	1.8~3.6	8	2	2	2	1	1	1	1	3	16	2	0	3	2	3	4+2	2	1	1	1+1	0	0	1	0	1	LQFP64
APM32F407RET6	168	512	192+4	0	1	51	1.8~3.6	8	2	2	2	1	1	1	1	3	16	2	0	3	2	3	4+2	2	1	1	1+1	0	0	1	0	1	LQFP64
APM32F417IGT6	168	1024	192+4	1	1	140	1.8~3.6	8	2	2	2	1	1	1	1	3	24	2	1	3	2	3	4+2	2	1	1	1+1	1	1	1	1	1	LQFP176
APM32F417IET6	168	512	192+4	1	1	140	1.8~3.6	8	2	2	2	1	1	1	1	3	24	2	1	3	2	3	4+2	2	1	1	1+1	1	1	1	1	1	LQFP176
APM32F417ZGT6	168	1024	192+4	0	1	114	1.8~3.6	8	2	2	2	1	1	1	1	3	24	2	1	3	2	3	4+2	2	1	1	1+1	1	1	1	1	1	LQFP144
APM32F417ZET6	168	512	192+4	0	1	114	1.8~3.6	8	2	2	2	1	1	1	1	3	24	2	1	3	2	3	4+2	2	1	1	1+1	1	1	1	1	1	LQFP144
APM32F417VGT6	168	1024	192+4	0	1	82	1.8~3.6	8	2	2	2	1	1	1	1	3	16	2	1	3	2	3	4+2	2	1	1	1+1	1	1	1	1	1	LQFP100
APM32F417VET6	168	512	192+4	0	1	82	1.8~3.6	8	2	2	2	1	1	1	1	3	16	2	1	3	2	3	4+2	2	1	1	1+1	1	1	1	1	1	LQFP100
APM32F405ZGT6	168	1024	192+4	0	1	114	1.8~3.6	8	2	2	2	1	1	1	1	3	24	2	1	3	2	3	4+2	2	1	1	1+1	0	0	1	0	0	LQFP144
APM32F405VGT6	168	1024	192+4	0	1	82	1.8~3.6	8	2	2	2	1	1	1	1	3	16	2	1	3	2	3	4+2	2	1	1	1+1	0	0	1	0	0	LQFP100
APM32F405RGT6	168	1024	192+4	0	1	51	1.8~3.6	8	2	2	2	1	1	1	1	3	16	2	0	3	2	3	4+2	2	1	1	1+1	0	0	1	0	0	LQFP64
APM32F415ZGT6	168	1024	192+4	0	1	114	1.8~3.6	8	2	2	2	1	1	1	1	3	24	2	1	3	2	3	4+2	2	1	1	1+1	0	0	1	1	1	LQFP144
APM32F415VGT6	168	1024	192+4	0	1	82	1.8~3.6	8	2	2	2	1	1	1	1	3	16	2	1	3	2	3	4+2	2	1	1	1+1	0	0	1	1	1	LQFP100
APM32F415RGT6	168	1024	192+4	0	1	51	1.8~3.6	8	2	2	2	1	1	1	1	3	16	2	0	3	2	3	4+2	2	1	1	1+1	0	0	1	1	1	LQFP64

APM32 Series Automotive Grade MCUs — Arm® Cortex®-M0+/M3

Part No.	Frequency(MHz)	FLASH(KB)	SRAM(KB)	EMMC	FPU	I/Os	Vmin(V)	Vmax(V)	Timer								Analog Interface						Connectivity								Package
									GPTMR(16bit)	GP TMR(32bit)	Advanced TMR(16bit)	Basic TMR	Systick(24bit)	IWDG	WWDG	RTC	ADC 12-bit Cell	ADC 12-bit channels	DAC 12-bit Cell	DAC 12-bit channels	Analog Comparator	TSC (Channels)	SPI	I2S	I2C	U/S/ART	CAN	SDIO	USB Device	CEC	
APM32F103RCT7	96	256	64	1	0	51	2	3.6	4	0	2	2	1	1	1	1	3	16	2	2	0	0	3	2	2	3+2	2	1	1	0	LQFP64
APM32F072RBT7	48	128	16	0	0	51	2	3.6	5	1	1	2	1	1	1	1	1	16	1	2	2	18	2	2	2	4	1	0	1	1	LQFP 64

Gw88 Series Bluetooth SoC—BLE4.2

Part No.	Frequency (MHz)	FLASH (KB)	SRAM (KB)	I/Os	Vmin(V)	Vmax(V)	Max. TX Power(dBm)	RX Sensitivity(dBm)	TX Current (mA@0dBm)	RX Current (mA@0dBm)	Sleep Mode Current (μA)	Deep Sleep Mode Current (μA)	Operating Temperature (°C), Tj	Timer				Analog Interface		Connectivity									Package
														Low Speed TM(32bit)	High Speed TM(16bit)	WDT(16bit)	RTC	GPADC 10bit Cell	GPADC 10bit channels	SPI(master)	I2C(master)	U(S)ART	PWM	Quadrature Decoder	ISO7816	Infrared emitting & receiving	Keyscan decoder (rows & columns)	AES Encryption Engine	
GW8811KEU6	64	512	24	21	1.8	3.6	+4	-94	4.8	2.8	2.7	1	-40~+85	4	1	1	1	1	4+1	2	2	2	6	Yes	Yes	Yes	8 x 20	128 bit	QFN32
GW8811CEU6	64	512	32	32	1.8	3.6	+4	-94	4.8	2.8	2.7	1	-40~+85	4	1	1	1	1	8+1	2	2	2	6	Yes	Yes	Yes	8 x 20	128 bit	QFN48

Product Selection Guide

AP/G	M/W	32/88	F/11	103	T	4	T	6	S

Brand
Geehy

M：MCU
W：Wireless

Family
32：32-bit MCU
88：BLE SoC
33：32-bit DSP CPU+BLE

F
Product type
A Auto grade
E Enhanced
F Foundation
L Ultra-low-power
S Standard
T Touch sensing
W Wireless

11
Specific features
11 BLE4.2

Specific features (3 digits)
0xx Entry-level/ Ultra-low-power
10x Foundation
4xx High-performance

Pin count (pins)
D 14
F 20
E 24
G 28
K 32
T 36
H 40
S 44
C 48
U 63
R 64
J 72
M 80
O 90
V 100
Q 132
Z 144
A 169
I 176

Code size (Kbytes)
4 16
6 32
7 48
8 64
9 72
A 96
B 128
Z 192
C 256
D 384
E 512
F 768
G 1024

Packaging
H LFBGA/TFBGA
I UFBGA Pitch 0.5
J UFBGA Pitch 0.8
k UFBGA Pitch 0.65
M SOP
P TSSOP
T QFP
U QFN
Y WLCSP

Temperature range
6 and A：-40°C~85°C
7 and B：-40°C~105°C
3 and C：-40°C~125°C
D：-40°C~150°C

SiP type
S：SiP 2MB SDRAM
Blank=Non-SiP

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