

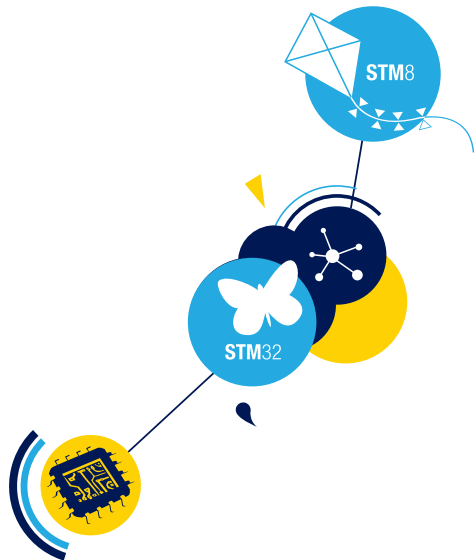


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8- and 32-bit microcontrollers



Product selection guide



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STM32 – 32-bit microcontroller families



STM32 F0 SERIES - ARM CORTEX®-M0 ENTRY-LEVEL MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface						Supply voltage (V)	Supply current (I _{CC})		Maximum operating temperature range (°C)
				16-/32-bit timers	Others				SPI	I ² S	I ² C	USART	CEC	USB FS		CAN 2.0B	Lowest power mode (µA)	
STM32F030 Value line - 48 MHz CPU																		
STM32F030F4	16	4	TSSOP20	4x16-bit/-	2 x WDG, RTC, 24-bit down counter	11x12-bit		15	1		1	1			2.4 to 3.6	3.4	250	-40 to +85
STM32F030C6	32	4	LQFP48	4x16-bit/-		12x12-bit		39	1		1	1			2.4 to 3.6	3.4	250	-40 to +85
STM32F030K6	32	4	LQFP32	4x16-bit/-		12x12-bit		26	1		1	1			2.4 to 3.6	3.4	250	-40 to +85
STM32F030C8	64	8	LQFP48	6x16-bit/-		12x12-bit		39	2		2	2			2.4 to 3.6	3.4	250	-40 to +85
STM32F030R8	64	8	LQFP64	6x16-bit/-		18x12-bit		55	2		2	2			2.4 to 3.6	3.4	250	-40 to +85
STM32F0x1 line - 48 MHz CPU																		
STM32F031C4	16	4	LQFP48	5x16-bit / 1x32-bit	2 x WDG, RTC, 24-bit down counter	13x12-bit		39	1	1	1	1			2.0 to 3.6	1.7	250	-40 to +105
STM32F031F4	16	4	TSSOP20	5x16-bit / 1x32-bit		12x12-bit		13	1	1	1	1			2.0 to 3.6	1.7	250	-40 to +105
STM32F031G4	16	4	UFQFPN28	5x16-bit / 1x32-bit		13x12-bit		21	1	1	1	1			2.0 to 3.6	1.7	250	-40 to +105
STM32F031K4	16	4	UFQFPN32	5x16-bit / 1x32-bit		13x12-bit		27	1	1	1	1			2.0 to 3.6	1.7	250	-40 to +105
STM32F031C6	32	4	LQFP48	5x16-bit / 1x32-bit		13x12-bit		39	1	1	1	1			2.0 to 3.6	1.7	250	-40 to +105
STM32F031F6	32	4	TSSOP20	5x16-bit / 1x32-bit		12x12-bit		13	1	1	1	1			2.0 to 3.6	1.7	250	-40 to +105
STM32F031G6	32	4	UFQFPN28	5x16-bit / 1x32-bit		13x12-bit		21	1	1	1	1			2.0 to 3.6	1.7	250	-40 to +105
STM32F031K6	32	4	UFQFPN32	5x16-bit / 1x32-bit		13x12-bit		27	1	1	1	1			2.0 to 3.6	1.7	250	-40 to +105
STM32F051C4	16	8	LQFP48	7x16-bit / 1x32-bit		13x12-bit	1x12-bit	39	1	1	1	1	1		2.0 to 3.6	1.7	250	-40 to +105

STM32 F0 SERIES - ARM CORTEX®-M0 ENTRY-LEVEL MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface							Supply voltage (V)	Supply current (I _{CC})		Maximum operating temperature range (°C)	
				16-/32-bit timers	Others				SPI	I ² S	I ² C	USART	CEC	USB FS	CAN 2.0B		Lowest power mode (µA)	Run mode (per MHz) (µA)		
STM32F051K4	16	8	UFQFPN32	7x16-bit / 1x32-bit	2 x WDG, RTC, 24-bit down counter	13x12-bit	1x12-bit	27	1	1	1	1	1			2.0 to 3.6	1.7	250	-40 to +105	
STM32F051R4	16	8	LQFP64	7x16-bit / 1x32-bit		19x12-bit	1x12-bit	55	1	1	1	1					2.0 to 3.6	1.7	250	-40 to +105
STM32F051C6	32	8	LQFP48	7x16-bit / 1x32-bit		13x12-bit	1x12-bit	39	1	1	1	2	1				2.0 to 3.6	1.7	250	-40 to +105
STM32F051K6	32	8	UFQFPN32	7x16-bit / 1x32-bit		13x12-bit	1x12-bit	27	1	1	1	2	1				2.0 to 3.6	1.7	250	-40 to +105
STM32F051R6	32	8	LQFP64	7x16-bit / 1x32-bit		19x12-bit	1x12-bit	55	1	1	1	2	1				2.0 to 3.6	1.7	250	-40 to +105
STM32F051C8	64	8	LQFP48	7x16-bit / 1x32-bit		13x12-bit	1x12-bit	39	2	1	2	2	1				2.0 to 3.6	1.7	250	-40 to +105
STM32F051K8	64	8	UFQFPN32	7x16-bit / 1x32-bit		13x12-bit	1x12-bit	27	1	1	1	2	1				2.0 to 3.6	1.7	250	-40 to +105
STM32F051R8	64	8	LQFP64	7x16-bit / 1x32-bit		19x12-bit	1x12-bit	55	2	1	2	2	1				2.0 to 3.6	1.7	250	-40 to +105
STM32F071V8	64	16	LQFP100	8x16-bit / 1x32-bit		19x12-bit	2x12-bit	87	2	1	2	4	1				2.0 to 3.6	1.8	260	-40 to +105
STM32F071CB	128	16	LQFP48	8x16-bit / 1x32-bit		13x12-bit	2x12-bit	37	2	1	2	4	1				2.0 to 3.6	1.8	260	-40 to +105
STM32F071RB	128	16	LQFP64	8x16-bit / 1x32-bit		19x12-bit	2x12-bit	51	2	1	2	4	1				2.0 to 3.6	1.8	260	-40 to +105
STM32F071VB	128	16	LQFP100	8x16-bit / 1x32-bit		19x12-bit	2x12-bit	87	2	1	2	4	1				2.0 to 3.6	1.8	260	-40 to +105
STM32F091CB	128	32	LQFP48	8x16-bit / 1x32-bit		13x12-bit	2x12-bit	38	2	1	2	6	1		1		2.0 to 3.6	2	280	-40 to +105
STM32F091RB	128	32	LQFP64	8x16-bit / 1x32-bit		19x12-bit	2x12-bit	52	2	1	2	8	1		1		2.0 to 3.6	2	280	-40 to +105
STM32F091VB	128	32	LQFP100	8x16-bit / 1x32-bit		19x12-bit	2x12-bit	88	2	1	2	8	1		1		2.0 to 3.6	2	280	-40 to +105
STM32F091CC	256	32	LQFP48	8x16-bit / 1x32-bit		13x12-bit	2x12-bit	38	2	1	2	6	1		1		2.0 to 3.6	2	280	-40 to +105

STM32 F0 SERIES - ARM CORTEX™-M0 ENTRY-LEVEL MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface							Supply voltage (V)	Supply current (I _{cc})		Maximum operating temperature range (°C)
				16-/32-bit timers	Others				SPI	I ² S	I ² C	USART	CEC	USB FS	CAN 2.0B		Lowest power mode (μA)	Run mode (per MHz) (μA)	
STM32F091RC	256	32	LQFP64	8x16-bit / 1x32-bit	2 x WDG, RTC, 24-bit down counter	19x12-bit	2x12-bit	52	2	1	2	8	1		1	2.0 to 3.6	2	280	-40 to +105
STM32F091VC	256	32	LQFP100	8x16-bit / 1x32-bit		19x12-bit	2x12-bit	88	2	1	2	8	1		1	2.0 to 3.6	2	280	-40 to +105
STM32F0x2 line - 48 MHz CPU with USB and CAN																			
STM32F042F4	16	6	TSSOP20	5x16-bit / 1x32-bit	2 x WDG, RTC, 24-bit down counter	12x12-bit		16	1	1	1	2	1	1	1	2.0 to 3.6	1.7	250	-40 to +105
STM32F042F6	32	6	TSSOP20	5x16-bit / 1x32-bit		12x12-bit		16	1	1	1	2	1	1	1	2.0 to 3.6	1.7	250	-40 to +105
STM32F042G4	16	6	UFQFPN28	5x16-bit / 1x32-bit		13x12-bit		24	2	1	1	2	1	1	1	2.0 to 3.6	1.7	250	-40 to +105
STM32F042G6	32	6	UFQFPN28	5x16-bit / 1x32-bit		13x12-bit		24	2	1	1	2	1	1	1	2.0 to 3.6	1.7	250	-40 to +105
STM32F042K4	16	6	LQFP32 UFQFPN32	5x16-bit / 1x32-bit		13x12-bit		28	2	1	1	2	1	1	1	2.0 to 3.6	1.7	250	-40 to +105
STM32F042K6	32	6	LQFP32 UFQFPN32	5x16-bit / 1x32-bit		13x12-bit		28	2	1	1	2	1	1	1	2.0 to 3.6	1.7	250	-40 to +105
STM32F042T6	32	6	WLCSP36	5x16-bit / 1x32-bit		13x12-bit		30	2	1	1	2	1	1	1	2.0 to 3.6	1.7	250	-40 to +105
STM32F042C4	16	6	LQFP48 UFQFPN48	5x16-bit / 1x32-bit		13x12-bit		38	2	1	1	2	1	1	1	2.0 to 3.6	1.7	250	-40 to +105
STM32F042C6	32	6	LQFP48 UFQFPN48	5x16-bit / 1x32-bit		13x12-bit		38	2	1	1	2	1	1	1	2.0 to 3.6	1.7	250	-40 to +105
STM32F072C8	64	16	LQFP48	8x16-bit / 1x32-bit		13x12-bit	2x12-bit	37	2	2	2	4	1	1	1	2.0 to 3.6	1.8	260	-40 to +105
STM32F072R8	64	16	LQFP64	8x16-bit / 1x32-bit		19x12-bit	2x12-bit	51	2	2	2	4	1	1	1	2.0 to 3.6	1.8	260	-40 to +105
STM32F072V8	64	16	LQFP100	8x16-bit / 1x32-bit		19x12-bit	2x12-bit	87	2	2	2	4	1	1	1	2.0 to 3.6	1.8	260	-40 to +105
STM32F072CB	128	16	LQFP48	8x16-bit / 1x32-bit		13x12-bit	2x12-bit	37	2	2	2	4	1	1	1	2.0 to 3.6	1.8	260	-40 to +105
STM32F072RB	128	16	LQFP64	8x16-bit / 1x32-bit		19x12-bit	2x12-bit	51	2	2	2	4	1	1	1	2.0 to 3.6	1.8	260	-40 to +105

STM32 F0 SERIES - ARM CORTEX™-M0 ENTRY-LEVEL MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface							Supply voltage (V)	Supply current (I _{cc})		Maximum operating temperature range (°C)	
				16-/32-bit timers	Others				SPI	I ² S	I ² C	USART	CEC	USB FS	CAN 2.0B		Lowest power mode (µA)	Run mode (per MHz) (µA)		
STM32F072VB	128	16	LQFP100 / UFBGA100	8x16-bit / 1x32-bit	2 x WDG, RTC, 24-bit down counter	19x12-bit	2x12-bit	87	2	2	2	4	1	1	1	2.0 to 3.6	1.8	260	-40 to +105	
STM32F0x8 line - 48 MHz CPU with USB																				
STM32F038C6	32	4	LQFP48 / UFQFPN48	5x16-bit / 1x32-bit	2 x WDG, RTC, 24-bit down counter	12x12-bit		38	1	1	1	1				1.65 to 1.95	1.7	250	-40 to +105	
STM32F038E6	32	4	WLCSP25	5x16-bit / 1x32-bit		13x12-bit											1.65 to 1.95	1.7	250	-40 to +105
STM32F038F6	32	4	TSSOP20	5x16-bit / 1x32-bit		13x12-bit		12	1	1	1	1					1.65 to 1.95	1.7	250	-40 to +105
STM32F038G6	32	4	UFQFPN28	5x16-bit / 1x32-bit		13x12-bit		20	1	1	1	1					1.65 to 1.95	1.7	250	-40 to +105
STM32F038K6	32	4	UFQFPN32	5x16-bit / 1x32-bit		13x12-bit		26	1	1	1	1					1.65 to 1.95	1.7	250	-40 to +105
STM32F058C8	64	8	UFQFPN48	7x16-bit / 1x32-bit		13x12-bit	1x12-bit	38	2	1	2	2	1				1.65 to 1.95	1.7	250	-40 to +105
STM32F058R8	64	8	LQFP64	7x16-bit / 1x32-bit		13x12-bit	1x12-bit	54	2	1	2	2	1				1.65 to 1.95	1.7	250	-40 to +105
STM32F058T8	64	8	WLCSP36	7x16-bit / 1x32-bit		19x12-bit	1x12-bit	30	2	1	2	2	1				1.65 to 1.95	1.8	260	-40 to +105
STM32F048G6	32	6	UFQFPN28	5x16-bit / 1x32-bit		13x12-bit		24	2	1	1	2	1	1			1.65 to 1.95	1.7	250	-40 to +105
STM32F048K6	32	6	UFQFPN32	5x16-bit / 1x32-bit		13x12-bit		28	2	1	1	2	1	1			1.65 to 1.95	1.7	250	-40 to +105
STM32F048T6	32	6	WLCSP36	5x16-bit / 1x32-bit		13x12-bit		30	2	1	1	2	1	1			1.65 to 1.95	1.7	250	-40 to +105
STM32F048C6	32	6	LQFP48 / UFQFPN48	5x16-bit / 1x32-bit		13x12-bit		38	2	1	1	2	1	1			1.65 to 1.95	1.7	250	-40 to +105
STM32F078CB	128	16	LQFP48 / WLCSP49	8x16-bit / 1x32-bit		13x12-bit	2x12-bit	36	2	2	2	4	1	1			1.65 to 1.95	1.8	260	-40 to +105
STM32F078RB	128	16	LQFP64	8x16-bit / 1x32-bit		19x12-bit	2x12-bit	50	2	2	2	4	1	1			1.65 to 1.95	1.8	260	-40 to +105
STM32F078VB	128	16	LQFP100	8x16-bit / 1x32-bit		19x12-bit	2x12-bit	86	2	2	2	4	1	1			1.65 to 1.95	1.8	260	-40 to +105

STM32 F3 SERIES - ARM CORTEX®-M4 MIXED-SIGNAL MCUS WITH DSP AND FPU

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	Timer functions			Analog				I/Os	Serial interface					Supply voltage (V)	Supply current (I _{cc})		Maximum operating temperature range (°C)	
				HR Timer	16-/32-bit timers	Others	ADC 16-bit / 12-bit	DAC	Comp.	Op-amp		SPI	I ² S	I ² C	USART	USB FS		CAN 2.0B	Lowest power mode (µA)		Run mode (per MHz) (µA)
STM32F301 line – 72 MHz																					
STM32F301C6	32	16	LQFP48		5x16-bit / 1x32-bit		15x12-bit	1x12-bit	3	1	37	3	up to 2x full duplex	2	5			2.0 to 3.6	1.5	349	-40 to +105
STM32F301K6	32	16	UFQFPN32		5x16-bit / 1x32-bit		15x12-bit	1x12-bit	2	1	24	3		2	5			2.0 to 3.6	1.5	349	-40 to +105
STM32F301R6	32	16	LQFP64		5x16-bit / 1x32-bit	SysTick, 2 x WDG, RTC	15x12-bit	1x12-bit	3	1	51	3		2	5			2.0 to 3.6	1.5	349	-40 to +105
STM32F301C8	64	16	LQFP48 WLCSP49		5x16-bit / 1x32-bit		15x12-bit	1x12-bit	3	1	37	3		2	5			2.0 to 3.6	1.5	349	-40 to +105
STM32F301K8	64	16	UFQFPN32		5x16-bit / 1x32-bit		15x12-bit	1x12-bit	2	1	24	3		2	5			2.0 to 3.6	1.5	349	-40 to +105
STM32F301R8	64	16	LQFP64		5x16-bit / 1x32-bit		15x12-bit	1x12-bit	3	1	51	3		2	5			2.0 to 3.6	1.5	349	-40 to +105
STM32F302 line – 72 MHz																					
STM32F302C6	32	16	LQFP48		5x16-bit / 1x32-bit		SysTick, 2 x WDG, RTC	15x12-bit	1x12-bit	3	1	37	2	up to 2x full duplex	3	3	1	1	2.0 to 3.6	1.5	349
STM32F302K6	32	16	UFQFPN32		5x16-bit / 1x32-bit	15x12-bit		1x12-bit	3	1	24	2	3		3	1	1	2.0 to 3.6	1.5	349	-40 to +105
STM32F302R6	32	16	LQFP64		5x16-bit / 1x32-bit	15x12-bit		1x12-bit	3	1	51	2	3		3	1	1	2.0 to 3.6	1.5	349	-40 to +105
STM32F302C8	64	16	LQFP48 WLCSP49		5x16-bit / 1x32-bit	15x12-bit		1x12-bit	3	1	37	2	3		3	1	1	2.0 to 3.6	1.5	349	-40 to +105
STM32F302K8	64	16	UFQFPN32		5x16-bit / 1x32-bit	15x12-bit		1x12-bit	3	1	24	2	3		3	1	1	2.0 to 3.6	1.5	349	-40 to +105
STM32F302R8	64	16	LQFP64		5x16-bit / 1x32-bit	15x12-bit		1x12-bit	3	1	51	2	3		3	1	1	2.0 to 3.6	1.5	349	-40 to +105
STM32F302CB	128	32	LQFP48		8x16-bit / 1x32-bit	9x12-bit		1x12-bit	4	2	37	3	2		5	1	1	2.0 to 3.6	1.5	392	-40 to +105
STM32F302RB	128	32	LQFP64		8x16-bit / 1x32-bit	16x12-bit		1x12-bit	4	2	52	3	2		5	1	1	2.0 to 3.6	1.5	392	-40 to +105
STM32F302VB	128	32	LQFP100		8x16-bit / 1x32-bit	17x12-bit		1x12-bit	4	2	87	3	2		5	1	1	2.0 to 3.6	1.5	392	-40 to +105

STM32 F3 SERIES - ARM CORTEX®-M4 MIXED-SIGNAL MCUS WITH DSP AND FPU

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	Timer functions			Analog				I/Os	Serial interface					Supply voltage (V)	Supply current (I _{cc})		Maximum operating temperature range (°C)	
				HR Timer	16-/32-bit timers	Others	ADC 16-bit / 12-bit	DAC	Comp.	Op-amp		SPI	I ² S	I ² C	USART	USB FS		CAN 2.0B	Lowest power mode (µA)		Run mode (per MHz) (µA)
STM32F302CC	256	40	LQFP48		8x16-bit / 1x32-bit	SysTick, 2 x WDG, RTC	9x12-bit	1x12-bit	4	2	37	3	up to 2x full duplex	2	5	1	1	2.0 to 3.6	1.5	392	-40 to +105
STM32F302RC	256	40	LQFP64		8x16-bit / 1x32-bit		16x12-bit	1x12-bit	4	2	52	3		2	5	1	1	2.0 to 3.6	1.5	392	-40 to +105
STM32F302VC	256	40	LQFP100		8x16-bit / 1x32-bit		17x12-bit	1x12-bit	4	2	87	3		2	5	1	1	2.0 to 3.6	1.5	392	-40 to +105
STM32F302RD	384	64	LQFP64		8x16-bit / 1x32-bit		16x12-bit	1x12-bit	4	2	51	4		3	5	1	1	2.0 to 3.6	1.5	392	-40 to +105
STM32F302RE	512	64	LQFP64		8x16-bit / 1x32-bit		16x12-bit	1x12-bit	4	2	51	4		3	5	1	1	2.0 to 3.6	1.5	392	-40 to +105
STM32F302VD	384	64	LQFP100		8x16-bit / 1x32-bit		17x12-bit	1x12-bit	4	2	86	4		3	5	1	1	2.0 to 3.6	1.5	392	-40 to +105
STM32F302VE	512	64	LQFP100		8x16-bit / 1x32-bit		17x12-bit	1x12-bit	4	2	86	4		3	5	1	1	2.0 to 3.6	1.5	392	-40 to +105
STM32F302ZD	384	64	LQFP144		8x16-bit / 1x32-bit		17x12-bit	1x12-bit	4	2	116	4		3	5	1	1	2.0 to 3.6	1.5	392	-40 to +105
STM32F302ZE	512	64	LQFP144		8x16-bit / 1x32-bit		17x12-bit	1x12-bit	4	2	116	4		3	5	1	1	2.0 to 3.6	1.5	392	-40 to +105
STM32F303 line – 72 MHz with 8-Kbyte CCM-SRAM and 12-bit ADC (5 MSPS)																					
STM32F303C6	32	16	LQFP48		7x16-bit / 1x32-bit	SysTick, 2 x WDG, RTC	15x12-bit	3x12-bit	3	1	37	1	up to 2x full duplex	1	3		1	2.0 to 3.6	1.4	353	-40 to +105
STM32F303K6	32	16	LQFP32		7x16-bit / 1x32-bit		9x12-bit	3x12-bit	2	1	24	1		1	2		1	2.0 to 3.6	1.4	353	-40 to +105
STM32F303R6	32	16	LQFP64		7x16-bit / 1x32-bit		22x12-bit	3x12-bit	3	1	51	1		1	3		1	2.0 to 3.6	1.4	353	-40 to +105
STM32F303C8	64	16	LQFP48		7x16-bit / 1x32-bit		15x12-bit	3x12-bit	3	1	37	1		1	3		1	2.0 to 3.6	1.4	353	-40 to +105
STM32F303K8	64	16	LQFP32		7x16-bit / 1x32-bit		9x12-bit	3x12-bit	2	1	24	1		1	2		1	2.0 to 3.6	1.4	353	-40 to +105
STM32F303R8	64	16	LQFP64		7x16-bit / 1x32-bit		22x12-bit	3x12-bit	3	1	51	1		1	3		1	2.0 to 3.6	1.4	353	-40 to +105
STM32F303CB	128	40	LQFP48		9x16-bit / 1x32-bit		15x12-bit	2x12-bit	7	4	37	3		2	5	1	1	2.0 to 3.6	1.5	392	-40 to +105

STM32 F3 SERIES - ARM CORTEX®-M4 MIXED-SIGNAL MCUS WITH DSP AND FPU

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	Timer functions			Analog				I/Os	Serial interface					Supply voltage (V)	Supply current (I _{cc})		Maximum operating temperature range (°C)	
				HR Timer	16-/32-bit timers	Others	ADC 16-bit / 12-bit	DAC	Comp.	Op-amp		SPI	I ² S	I ² C	USART	USB FS		CAN 2.0B	Lowest power mode (μA)		Run mode (per MHz) (μA)
STM32F303RB	128	40	LQFP64		9x16-bit / 1x32-bit	SysTick, 2 x WDG, RTC	22x12-bit	2x12-bit	7	4	52	3	up to 2x full duplex	2	5	1	1	2.0 to 3.6	1.5	392	-40 to +105
STM32F303VB	128	40	LQFP100		9x16-bit / 1x32-bit		39x12-bit	2x12-bit	7	4	87	3		2	5	1	1	2.0 to 3.6	1.5	392	-40 to +105
STM32F303CC	256	48	LQFP48		9x16-bit / 1x32-bit		15x12-bit	2x12-bit	7	4	37	3		2	5	1	1	2.0 to 3.6	1.5	392	-40 to +105
STM32F303RC	256	48	LQFP64		9x16-bit / 1x32-bit		22x12-bit	2x12-bit	7	4	52	3		2	5	1	1	2.0 to 3.6	1.5	392	-40 to +105
STM32F303VC	256	48	LQFP100		9x16-bit / 1x32-bit		39x12-bit	2x12-bit	7	4	87	3		2	5	1	1	2.0 to 3.6	1.5	392	-40 to +105
STM32F303RD	384	80	LQFP64		10x16-bit / 1x32-bit		22x12-bit	2x12-bit	7	4	51	4		3	5	1	1	2.0 to 3.6	1.5	392	-40 to +105
STM32F303RE	512	80	LQFP64		10x16-bit / 1x32-bit		22x12-bit	2x12-bit	7	4	51	4		3	5	1	1	2.0 to 3.6	1.5	392	-40 to +105
STM32F303VD	384	80	LQFP100		10x16-bit / 1x32-bit		39x12-bit	2x12-bit	7	4	86	4		3	5	1	1	2.0 to 3.6	1.5	392	-40 to +105
STM32F303VE	512	80	LQFP100		10x16-bit / 1x32-bit		39x12-bit	2x12-bit	7	4	86	4		3	5	1	1	2.0 to 3.6	1.5	392	-40 to +105
STM32F303ZD	384	80	LQFP144		10x16-bit / 1x32-bit		40x12-bit	2x12-bit	7	4	116	4		3	5	1	1	2.0 to 3.6	1.5	392	-40 to +105
STM32F303ZE	512	80	LQFP144		10x16-bit / 1x32-bit		40x12-bit	2x12-bit	7	4	116	4		3	5	1	1	2.0 to 3.6	1.5	392	-40 to +105
STM32F373 line – 72 MHz with 16-bit ΣΔ ADC																					
STM32F373C8	64	16	LQFP48		9x16-bit / 2x32-bit	SysTick, 2 x WDG, RTC	8x16-bit / 9x12-bit	3x12-bit	2		36	3	up to 3x half duplex	2	3	1	1	2.0 to 3.6	1.6	417	-40 to +105
STM32F373R8	64	16	LQFP64		9x16-bit / 2x32-bit		8x16-bit / 16x12-bit	3x12-bit	2		52	3		2	3	1	1	2.0 to 3.6	1.6	417	-40 to +105
STM32F373V8	64	16	LQFP100 UFBGA100		9x16-bit / 2x32-bit		21x16-bit / 16x12-bit	3x12-bit	2		84	3		2	3	1	1	2.0 to 3.6	1.6	417	-40 to +105
STM32F373CB	128	24	LQFP48		9x16-bit / 2x32-bit		8x16-bit / 9x12-bit	3x12-bit	2		36	3		2	3	1	1	2.0 to 3.6	1.6	417	-40 to +105
STM32F373RB	128	24	LQFP64		9x16-bit / 2x32-bit		8x16-bit / 16x12-bit	3x12-bit	2		52	3		2	3	1	1	2.0 to 3.6	1.6	417	-40 to +105

STM32 F3 SERIES - ARM CORTEX®-M4 MIXED-SIGNAL MCUS WITH DSP AND FPU

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	Timer functions			Analog				I/Os	Serial interface					Supply voltage (V)	Supply current (I _{cc})		Maximum operating temperature range (°C)	
				HR Timer	16-/32-bit timers	Others	ADC 16-bit / 12-bit	DAC	Comp.	Op-amp		SPI	I ² S	I ² C	USART	USB FS		CAN 2.0B	Lowest power mode (µA)		Run mode (per MHz) (µA)
STM32F373VB	128	24	LQFP100 UFBGA100		9x16-bit / 2x32-bit	SysTick, 2 x WDG, RTC	21x16-bit / 16x12-bit	3x12-bit	2		84	3	up to 3x half duplex	2	3	1	1	2.0 to 3.6	1.6	417	-40 to +105
STM32F373CC	256	32	LQFP48		9x16-bit / 2x32-bit		8x16-bit / 9x12-bit	3x12-bit	2		36	3		2	3	1	1	2.0 to 3.6	1.6	417	-40 to +105
STM32F373RC	256	32	LQFP64		9x16-bit / 2x32-bit		8x16-bit / 16x12-bit	3x12-bit	2		52	3		2	3	1	1	2.0 to 3.6	1.6	417	-40 to +105
STM32F373VC	256	32	LQFP100 UFBGA100		9x16-bit / 2x32-bit		21x16-bit / 16x12-bit	3x12-bit	2		84	3		2	3	1	1	2.0 to 3.6	1.6	417	-40 to +105
STM32F3x4 line – 72 MHz with HR-timer																					
STM32F334C4	16	8	LQFP48	1x217ps	7x16-bit / 1x32-bit	SysTick, 2 x WDG, RTC	15x12-bit	3x12-bit	3	1	37	1		1	3		1	2.0 to 3.6	1	420	-40 to +105
STM32F334K4	16	8	LQFP32	1x217ps	7x16-bit / 1x32-bit		9x12-bit	3x12-bit	2	1	24	1		1	2		1	2.0 to 3.6	1	420	-40 to +105
STM32F334C6	32	10	LQFP48	1x217ps	7x16-bit / 1x32-bit		15x12-bit	3x12-bit	3	1	37	1		1	3		1	2.0 to 3.6	1	420	-40 to +105
STM32F334K6	32	10	LQFP32	1x217ps	7x16-bit / 1x32-bit		9x12-bit	3x12-bit	2	1	24	1		1	2		1	2.0 to 3.6	1	420	-40 to +105
STM32F334R6	32	10	LQFP64	1x217ps	7x16-bit / 1x32-bit		22x12-bit	3x12-bit	3	1	51	1		1	3		1	2.0 to 3.6	1	420	-40 to +105
STM32F334C8	64	16	LQFP48	1x217ps	7x16-bit / 1x32-bit		15x12-bit	3x12-bit	3	1	37	1		1	3		1	2.0 to 3.6	1	420	-40 to +105
STM32F334K8	64	16	LQFP32	1x217ps	7x16-bit / 1x32-bit		9x12-bit	3x12-bit	2	1	24	1		1	2		1	2.0 to 3.6	1	420	-40 to +105
STM32F334R8	64	16	LQFP64	1x217ps	7x16-bit / 1x32-bit		15x12-bit	3x12-bit	3	1	51	1		1	3		1	2.0 to 3.6	1	420	-40 to +105
STM32F3x8 line – 72 MHz reg off 1.8V																					
STM32F318C8	64	16	LQFP48 WLCSP49		5x16-bit / 1x32-bit	SysTick, 2 x WDG, RTC	15x12-bit	1x12-bit	3	1	37	2	up to 2x full duplex	3	3		1	1.65 to 1.95	1	350	-40 to +105
STM32F318K8	64	16	UFQFPN32		5x16-bit / 1x32-bit		15x12-bit	1x12-bit	2	1	24	2		3	3		1	1.65 to 1.95	1	350	-40 to +105
STM32F328C8	64	16	LQFP48		7x16-bit / 1x32-bit		15x12-bit	3x12-bit	3	1	37	1		1	3		1	1.65 to 1.95	1	420	-40 to +105

STM32 F3 SERIES - ARM CORTEX®-M4 MIXED-SIGNAL MCUS WITH DSP AND FPU

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	Timer functions			Analog				I/Os	Serial interface					Supply voltage (V)	Supply current (I _{cc})		Maximum operating temperature range (°C)		
				HR Timer	16-/32-bit timers	Others	ADC 16-bit / 12-bit	DAC	Comp.	Op-amp		SPI	I ² S	I ² C	USART	USB FS		CAN 2.0B	Lowest power mode (μA)		Run mode (per MHz) (μA)	
STM32F358CC	256	48	LQFP48		9x16-bit / 1x32-bit	SysTick, 2 x WDG, RTC	15x12-bit	2x12-bit	7	4	37	3	up to 2x full duplex	2	5		1	1.65 to 1.95	7.4	368	-40 to +105	
STM32F358RC	256	48	LQFP64		9x16-bit / 1x32-bit		22x12-bit	2x12-bit	7	4	52	3		up to 3x half duplex	2	5		1	1.65 to 1.95	7.4	368	-40 to +105
STM32F358VC	256	48	LQFP100		9x16-bit / 1x32-bit		39x12-bit	2x12-bit	7	4	87	3			2	5		1	1.65 to 1.95	7.4	368	-40 to +105
STM32F398ZE	512	80	LQFP144		10x16-bit / 1x32-bit		40x12-bit	2x12-bit	7	4	116	4	3	5		1	2.0 to 3.6	1.5	392	-40 to +105		
STM32F378CC	256	32	LQFP48		9x16-bit / 2x32-bit		8x16-bit / 9x12-bit	3x12-bit	2		36	3	up to 3x half duplex	2	3		1	1.65 to 1.95	5.9	394	-40 to +105	
STM32F378RC	256	32	LQFP64		9x16-bit / 2x32-bit		8x16-bit / 16x12-bit	3x12-bit	2		52	3		2	3		1	1.65 to 1.95	5.9	394	-40 to +105	
STM32F378VC	256	32	LQFP100		9x16-bit / 2x32-bit		21x16-bit / 16x12-bit	3x12-bit	2		84	3		2	3		1	1.65 to 1.95	5.9	394	-40 to +105	

Notes:

Supply voltage 2.0 to 3.6V for all devices or 1.8V +/-8% dedicated sales type

WLCSP66 package available in 1.8V +/-8% dedicated sales type only

STM32 F4 SERIES - ARM CORTEX®-M4 HIGH-PERFORMANCE MCUS WITH DSP AND FPU

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface						Supply voltage (V)	Supply current (I _{CC})		Maximum operating temperature range (°C)	
				16-/32-bit timers	Others				SPI	SAI	I ² S	I ² C	USART + UART ¹	USB OTG		CAN 2.0B	SDIO		Ethernet MAC10 /100
STM32F401 line: USB OTG (FS), low power (9 µA typ. in Stop mode) - 84 MHz CPU																			
STM32F401CB	128	64	WLCSP49 UFQFPN48	6x16-bit / 2x32-bit	2x WDG, RTC, 24-bit down counter	10x12-bit		36	3	2	3	3	1			1.7 ³ to 3.6	1.8	128	-40 to +85
STM32F401RB	128	64	LQFP64	6x16-bit / 2x32-bit		16x12-bit		50	3	2	3	3	1		1	1.7 ³ to 3.6	1.8	128	-40 to +85
STM32F401VB	128	64	LQFP100 UFBGA100	6x16-bit / 2x32-bit		16x12-bit		81	4	2	3	3	1		1	1.7 ³ to 3.6	1.8	128	-40 to +85
STM32F401CC	256	64	WLCSP49 UFQFPN48	6x16-bit / 2x32-bit		10x12-bit		36	3	2	3	3	1			1.7 ³ to 3.6	1.8	128	-40 to +85
STM32F401RC	256	64	LQFP64	6x16-bit / 2x32-bit		16x12-bit		50	3	2	3	3	1		1	1.7 ³ to 3.6	1.8	128	-40 to +85
STM32F401VC	256	64	LQFP100 UFBGA100	6x16-bit / 2x32-bit		16x12-bit		81	4	2	3	3	1		1	1.7 ³ to 3.6	1.8	128	-40 to +85
STM32F401CD	384	96	WLCSP49 UFQFPN48	6x16-bit / 2x32-bit		10x12-bit		36	3	2	3	3	1			1.7 ³ to 3.6	1.8	137	-40 to +85
STM32F401RD	384	96	LQFP64	6x16-bit / 2x32-bit		16x12-bit		50	3	2	3	3	1		1	1.7 ³ to 3.6	1.8	137	-40 to +85
STM32F401VD	384	96	LQFP100 UFBGA100	6x16-bit / 2x32-bit		16x12-bit		81	4	2	3	3	1		1	1.7 ³ to 3.6	1.8	137	-40 to +85
STM32F401CE	512	96	WLCSP49 UFQFPN48	6x16-bit / 2x32-bit		10x12-bit		36	3	2	3	3	1			1.7 ³ to 3.6	1.8	137	-40 to +85
STM32F401RE	512	96	LQFP64	6x16-bit / 2x32-bit		16x12-bit		50	3	2	3	3	1		1	1.7 ³ to 3.6	1.8	137	-40 to +85
STM32F401VE	512	96	LQFP100 UFBGA100	6x16-bit / 2x32-bit		16x12-bit		81	4	2	3	3	1		1	1.7 ³ to 3.6	1.8	137	-40 to +85
STM32F411 line: USB OTG (FS), low power (12 µA typ. in Stop mode) - 100 MHz CPU																			
STM32F411CC	256	128	WLCSP49 UFQFPN48	6x16-bit / 2x32-bit	2x WDG, RTC, 24-bit down counter	12x12-bit		36	3	2	3	3	1		1	1.7 ³ to 3.6	1.8	100	-40 to +85
STM32F411RC	256	128	LQFP64	6x16-bit / 2x32-bit		12x12-bit		48	3	2	3	3	1		1	1.7 ³ to 3.6	1.8	100	-40 to +85
STM32F411VC	256	128	LQFP100 UFBGA100	6x16-bit / 2x32-bit		12x12-bit		79	4	2	3	3	1		1	1.7 ³ to 3.6	1.8	100	-40 to +85

STM32 F4 SERIES - ARM CORTEX®-M4 HIGH-PERFORMANCE MCUS WITH DSP AND FPU

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface							Supply voltage (V)	Supply current (I _{CC})		Maximum operating temperature range (°C)	
				16-/32-bit timers	Others				SPI	SAI	I ² S	I ² C	USART + UART ¹	USB OTG	CAN 2.0B		SDIO	Ethernet MAC10 /100		Lowest power mode (µA)
STM32F411CE	512	128	WLCSP49 UFQFPN48	6x16-bit / 2x32-bit	2x WDG, RTC, 24-bit down counter	12x12-bit		36	3	2	3	3	1		1	1.7 ³ to 3.6	1.8	100	-40 to +85	
STM32F411RE	512	128	LQFP64	6x16-bit / 2x32-bit		12x12-bit		48	3	2	3	3	1		1	1.7 ³ to 3.6	1.8	100	-40 to +85	
STM32F411VE	512	128	LQFP100 UFBGA100	6x16-bit / 2x32-bit		12x12-bit		79	4	2	3	3	1		1	1.7 ³ to 3.6	1.8	100	-40 to +85	
STM32F405/415 line: USB OTG (FS/HS)¹, crypto/hash processor² - 168 MHz CPU																				
STM32F405OE	512	192	WLCSP90	12x16-bit / 2x32-bit	2x WDG, RTC, 24-bit down counter	13x12-bit	2x12-bit	72	3	2	3	4+2	2	2	1	1.7 ³ to 3.6	2.5	238	-40 to +85	
STM32F405OG	1024	192	WLCSP90	12x16-bit / 2x32-bit		13x12-bit	2x12-bit	72	3	2	3	4+2	2	2	1	1.7 ³ to 3.6	2.5	238	-40 to +85	
STM32F4150G ²	1024	192	WLCSP90	12x16-bit / 2x32-bit		13x12-bit	2x12-bit	72	3	2	3	4+2	2	2	1	1.7 ³ to 3.6	2.5	238	-40 to +85	
STM32F405RG	1024	192	LQFP64	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	51	3	2	3	4+2	2	2	1	1.8 to 3.6	2.5	238	-40 to +105	
STM32F415RG ²	1024	192	LQFP64	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	51	3	2	3	4+2	2	2	1	1.8 to 3.6	2.5	238	-40 to +85	
STM32F405VG	1024	192	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3	2	3	4+2	2	2	1	1.8 to 3.6	2.5	238	-40 to +105	
STM32F415VG ²	1024	192	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3	2	3	4+2	2	2	1	1.8 to 3.6	2.5	238	-40 to +85	
STM32F405ZG	1024	192	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3	2	3	4+2	2	2	1	1.7 ³ to 3.6	2.5	238	-40 to +105	
STM32F415ZG ²	1024	192	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3	2	3	4+2	2	2	1	1.7 ³ to 3.6	2.5	238	-40 to +85	
STM32F407/417 line: 2x USB OTG (FS/HS)¹, camera IF, crypto/hash processor² - 168 MHz CPU																				
STM32F407IE	512	192	UFBGA176 LQFP176	12x16-bit / 2x32-bit	2x WDG, RTC, 24-bit down counter	24x12-bit	2x12-bit	140	3	2	3	4+2	2	2	1	Yes	1.7 ³ to 3.6	2.5	238	-40 to +85
STM32F417IE ²	512	192	UFBGA176 LQFP176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	3	2	3	4+2	2	2	1	Yes	1.7 ³ to 3.6	2.5	238	-40 to +85
STM32F407VE	512	192	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3	2	3	4+2	2	2	1	Yes	1.8 to 3.6	2.5	238	-40 to +85

STM32 F4 SERIES - ARM CORTEX®-M4 HIGH-PERFORMANCE MCUS WITH DSP AND FPU

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface							Supply voltage (V)	Supply current (I _{CC})		Maximum operating temperature range (°C)		
				16-/32-bit timers	Others				SPI	SAI	I ² S	I ² C	USART + UART ¹	USB OTG	CAN 2.0B		SDIO	Ethernet MAC10/100		Lowest power mode (µA)	Run mode (per MHz) (µA)
STM32F417VE ²	512	192	LQFP100	12x16-bit / 2x32-bit	2x WDG, RTC, 24-bit down counter	16x12-bit	2x12-bit	82	3		2	3	4+2	2	2	1	Yes	1.8 to 3.6	2.5	238	-40 to +85
STM32F407ZE	512	192	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3		2	3	4+2	2	2	1	Yes	1.7 ³ to 3.6	2.5	238	-40 to +105
STM32F417ZE ²	512	192	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3		2	3	4+2	2	2	1	Yes	1.7 ³ to 3.6	2.5	238	-40 to +85
STM32F407IG	1024	192	UFBGA176 LQFP176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	3		2	3	4+2	2	2	1	Yes	1.7 ³ to 3.6	2.5	238	-40 to +105
STM32F417IG ²	1024	192	UFBGA176 LQFP176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	3		2	3	4+2	2	2	1	Yes	1.7 ³ to 3.6	2.5	238	-40 to +105
STM32F407VG	1024	192	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3		2	3	4+2	2	2	1	Yes	1.8 to 3.6	2.5	238	-40 to +105
STM32F417VG ²	1024	192	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3		2	3	4+2	2	2	1	Yes	1.8 to 3.6	2.5	238	-40 to +105
STM32F407ZG	1024	192	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3		2	3	4+2	2	2	1	Yes	1.7 ³ to 3.6	2.5	238	-40 to +105
STM32F417ZG ²	1024	192	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3		2	3	4+2	2	2	1	Yes	1.7 ³ to 3.6	2.5	238	-40 to +85
STM32F427/437 line: 2x USB OTG (FS/HS)¹, camera IF, crypto/hash processor², SDRAM interface, dual-bank Flash - 180 MHz CPU																					
STM32F427AG	1024	256	UFBGA169	12x16-bit / 2x32-bit	2x WDG, RTC, 24-bit down counter	24x12-bit	2x12-bit	130	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F427IG	1024	256	UFBGA176 LQFP176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F427VG	1024	256	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	6	1	2	3	4+4	2	2	1	Yes	1.8 to 3.6	2.5	260	-40 to +85
STM32F427ZG	1024	256	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F437IG ²	1024	256	UFBGA176 LQFP176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F437VG ²	1024	256	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	6	1	2	3	4+4	2	2	1	Yes	1.8 to 3.6	2.5	260	-40 to +85

STM32 F4 SERIES - ARM CORTEX®-M4 HIGH-PERFORMANCE MCUS WITH DSP AND FPU

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface							Supply voltage (V)	Supply current (I _{CC})		Maximum operating temperature range (°C)		
				16-/32-bit timers	Others				SPI	SAI	I ² S	I ² C	USART + UART ¹	USB OTG	CAN 2.0B		SDIO	Ethernet MAC10 /100		Lowest power mode (µA)	Run mode (per MHz) (µA)
STM32F437ZG ²	1024	256	LQFP144	12x16-bit / 2x32-bit	2x WDG, RTC, 24-bit down counter	24x12-bit	2x12-bit	114	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F427AI	2048	256	UFBGA169	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	130	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +105
STM32F427II	2048	256	UFBGA176 LQFP176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +105
STM32F427VI	2048	256	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	6	1	2	3	4+4	2	2	1	Yes	1.8 to 3.6	2.5	260	-40 to +105
STM32F427ZI	2048	256	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F437AI	2048	256	UFBGA169	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	130	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F437II ²	2048	256	UFBGA176 LQFP176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F437VI ²	2048	256	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	6	1	2	3	4+4	2	2	1	Yes	1.8 to 3.6	2.5	260	-40 to +105
STM32F437ZI ²	2048	256	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +105
STM32F429/439 line: Same as STM32F427/437 line + TFT LCD controller - 180 MHz CPU																					
STM32F429BE	512	256	LQFP208	12x16-bit / 2x32-bit	2x WDG, RTC, 24-bit down counter	24x12-bit	2x12-bit	168	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F429IE	512	256	UFBGA176 LQFP176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F429NE	512	256	TFBGA216	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	168	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F429VE	512	256	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	6	1	2	3	4+4	2	2	1	Yes	1.8 to 3.6	2.5	260	-40 to +105
STM32F429ZE	512	256	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F429BG	1024	256	LQFP208	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	168	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +105
STM32F429IG	1024	256	UFBGA176 LQFP176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85

STM32 F4 SERIES - ARM CORTEX®-M4 HIGH-PERFORMANCE MCUS WITH DSP AND FPU

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface							Supply voltage (V)	Supply current (I _{CC})		Maximum operating temperature range (°C)		
				16-/32-bit timers	Others				SPI	SAI	I ^S	I ^C	USART + UART ¹	USB OTG	CAN 2.0B		SDIO	Ethernet MAC10 /100		Lowest power mode (μA)	Run mode (per MHz) (μA)
STM32F429NG	1024	256	TFBGA216	12x16-bit / 2x32-bit	2x WDG, RTC, 24-bit down counter	24x12-bit	2x12-bit	168	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F429VG	1024	256	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	6	1	2	3	4+4	2	2	1	Yes	1.8 to 3.6	2.5	260	-40 to +85
STM32F429ZG	1024	256	LQFP144 WLCSP143	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F439BG ²	1024	256	LQFP208	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	168	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F439IG ²	1024	256	UFBGA176 LQFP176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F439NG ²	1024	256	TFBGA216	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	168	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F439VG ²	1024	256	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	6	1	2	3	4+4	2	2	1	Yes	1.8 to 3.6	2.5	260	-40 to +85
STM32F439ZG ²	1024	256	LQFP144 WLCSP143	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F429AI	2048	256	UFBGA169	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	130	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F429BI	2048	256	LQFP208	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	168	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F429II ²	2048	256	UFBGA176 LQFP176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F429NI	2048	256	TFBGA216	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	168	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F429VI	2048	256	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	6	1	2	3	4+4	2	2	1	Yes	1.8 to 3.6	2.5	260	-40 to +85
STM32F429ZI	2048	256	LQFP144 WLCSP143	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F439AI	2048	256	UFBGA169	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	130	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F439BI ²	2048	256	LQFP208	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	168	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F439II ²	2048	256	UFBGA176 LQFP176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85

STM32 F4 SERIES - ARM CORTEX®-M4 HIGH-PERFORMANCE MCUS WITH DSP AND FPU

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface							Supply voltage (V)	Supply current (I _{CC})		Maximum operating temperature range (°C)		
				16-/32-bit timers	Others				SPI	SAI	I ² S	I ² C	USART + UART ¹	USB OTG	CAN 2.0B		SDIO	Ethernet MAC10 /100		Lowest power mode (µA)	Run mode (per MHz) (µA)
STM32F439NI²	2048	256	TFBGA216	12x16-bit / 2x32-bit	2x WDG, RTC, 24-bit down counter	24x12-bit	2x12-bit	168	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85
STM32F439VI²	2048	256	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	6	1	2	3	4+4	2	2	1	Yes	1.8 to 3.6	2.5	260	-40 to +85
STM32F439ZI²	2048	256	LQFP144 WLCSP143	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	6	1	2	3	4+4	2	2	1	Yes	1.7 ³ to 3.6	2.5	260	-40 to +85

Notes:

1. HS requires an external PHY connected to ULPI interface
2. Crypto/hash processor on STM32F417, STM32F415, STM32F437, STM32F439
3. 1.7 V requires external reset circuitry and the device operates in the 0 to 70 °C temperature range
4. Marked in the table (3+2) means 3 USART and 2 UART. All UARTs have LIN master/slave function. All USARTs have IrDA, ISO 7816, modem control and LIN master/slave functions.

STM32 F1 SERIES - ARM CORTEX™-M3 MAINSTREAM MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface								Supply voltage (V)	Supply current (I _{cc})		Maximum operating temperature range (°C)	
				16-bit timers	Others				SPI	I ² S	I ² C	USART + UART ¹	CEC	USB FS	CAN 2.0B	SDIO		Ethernet MAC10 /100	Lowest power mode (µA)		Run mode (per MHz) (µA)
STM32F100 Value line - 24 MHz CPU																					
STM32F100C4	16	4	LQFP48	6x16-bit	2 x WDG, RTC, 24-bit downcounter	10x12-bit	2x12-bit	37	1	1	2	1					2 to 3.6	1.7	358	-40 to +105	
STM32F100R4	16	4	LQFP64, TFBGA64	6x16-bit		16x12-bit	2x12-bit	51	1	1	2	1						2 to 3.6	1.7	358	-40 to +105
STM32F100C6	32	4	LQFP48	6x16-bit		10x12-bit	2x12-bit	37	1	1	2	1						2 to 3.6	1.7	358	-40 to +105
STM32F100R6	32	4	LQFP64, TFBGA64	6x16-bit		16x12-bit	2x12-bit	51	1	1	2	1						2 to 3.6	1.7	358	-40 to +105
STM32F100C8	64	8	LQFP48	7x16-bit		10x12-bit	2x12-bit	37	2	2	3	1						2 to 3.6	1.7	358	-40 to +105
STM32F100R8	64	8	LQFP64, TFBGA64	7x16-bit		16x12-bit	2x12-bit	51	2	2	3	1						2 to 3.6	1.7	358	-40 to +105
STM32F100V8	64	8	LQFP100	7x16-bit		16x12-bit	2x12-bit	80	2	2	3	1						2 to 3.6	1.7	358	-40 to +105
STM32F100CB	128	8	LQFP48	7x16-bit		10x12-bit	2x12-bit	37	2	2	3	1						2 to 3.6	1.7	358	-40 to +105
STM32F100RB	128	8	LQFP64, TFBGA64	7x16-bit		16x12-bit	2x12-bit	51	2	2	3	1						2 to 3.6	1.7	358	-40 to +105
STM32F100VB	128	8	LQFP100	7x16-bit		16x12-bit	2x12-bit	80	2	2	3	1						2 to 3.6	1.7	358	-40 to +105
STM32F100RC	256	24	LQFP64	11x16-bit		16x12-bit	2x12-bit	51	3	2	3+2	1						2 to 3.6	2.2	396	-40 to +105
STM32F100VC	256	24	LQFP100	11x16-bit		16x12-bit	2x12-bit	80	3	2	3+2	1						2 to 3.6	2.2	396	-40 to +105
STM32F100ZC	256	24	LQFP144	11x16-bit		16x12-bit	2x12-bit	112	3	2	3+2	1						2 to 3.6	2.2	396	-40 to +105
STM32F100RD	384	32	LQFP64	11x16-bit		16x12-bit	2x12-bit	51	3	2	3+2	1						2 to 3.6	2.2	396	-40 to +105
STM32F100VD	384	32	LQFP100	11x16-bit		16x12-bit	2x12-bit	80	3	2	3+2	1						2 to 3.6	2.2	396	-40 to +105
STM32F100ZD	384	32	LQFP144	11x16-bit		16x12-bit	2x12-bit	112	3	2	3+2	1						2 to 3.6	2.2	396	-40 to +105
STM32F100RE	512	32	LQFP64	11x16-bit		16x12-bit	2x12-bit	51	3	2	3+2	1						2 to 3.6	2.2	396	-40 to +105
STM32F100VE	512	32	LQFP100	11x16-bit	16x12-bit	2x12-bit	80	3	2	3+2	1						2 to 3.6	2.2	396	-40 to +105	
STM32F100ZE	512	32	LQFP144	11x16-bit	16x12-bit	2x12-bit	112	3	2	3+2	1						2 to 3.6	2.2	396	-40 to +105	

STM32 F1 SERIES - ARM CORTEX™-M3 MAINSTREAM MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface							Supply voltage (V)	Supply current (I _{cc})		Maximum operating temperature range (°C)	
				16-bit timers	Others				SPI	I ² S	I ² C	USART + UART ¹	CEC	USB FS	CAN 2.0B		SDIO	Ethernet MAC10/100		Lowest power mode (µA)
STM32F101 Access line - 36 MHz CPU																				
STM32F101C4	16	4	LQFP48	2x16-bit		10x12-bit		36	1		1	2					2 to 3.6	1.7	363	-40 to +85
STM32F101R4	16	4	LQFP64	2x16-bit		16x12-bit		51	1		1	2					2 to 3.6	1.7	363	-40 to +85
STM32F101T4	16	4	VFQFPN36	2x16-bit		10x12-bit		26	1		1	2					2 to 3.6	1.7	363	-40 to +85
STM32F101C6	32	6	LQFP48	2x16-bit		10x12-bit		36	1		1	2					2 to 3.6	1.7	363	-40 to +85
STM32F101R6	32	6	LQFP64	2x16-bit		16x12-bit		51	1		1	2					2 to 3.6	1.7	363	-40 to +85
STM32F101T6	32	6	VFQFPN36	2x16-bit		10x12-bit		26	1		1	2					2 to 3.6	1.7	363	-40 to +85
STM32F101C8	64	10	LQFP48, VFQFPN48	3x16-bit		10x12-bit		36	2		2	3					2 to 3.6	1.7	363	-40 to +85
STM32F101R8	64	10	LQFP64	3x16-bit		16x12-bit		51	2		2	3					2 to 3.6	1.7	391	-40 to +85
STM32F101T8	64	10	VFQFPN36	3x16-bit		10x12-bit		26	1		1	2					2 to 3.6	1.7	391	-40 to +85
STM32F101V8	64	10	LQFP100	3x16-bit		16x12-bit		80	2		2	3					2 to 3.6	1.7	391	-40 to +85
STM32F101CB	128	16	LQFP48	3x16-bit		10x12-bit		36	2		2	3					2 to 3.6	1.7	363	-40 to +85
STM32F101RB	128	16	LQFP64, TFBGA64	3x16-bit	2 x WDG, RTC, 24-bit downcounter	16x12-bit		51	2		2	3					2 to 3.6	1.7	391	-40 to +85
STM32F101TB	128	16	VFQFPN36	3x16-bit		10x12-bit		26	1		1	2					2 to 3.6	1.7	391	-40 to +85
STM32F101VB	128	16	LQFP100	3x16-bit		16x12-bit		80	2		2	3					2 to 3.6	1.7	391	-40 to +85
STM32F101RC	256	32	LQFP64	6x16-bit		16x12-bit	2x12-bit	51	3		2	3+2					2 to 3.6	1.7	433	-40 to +85
STM32F101VC	256	32	LQFP100	6x16-bit		16x12-bit	2x12-bit	80	3		2	3+2					2 to 3.6	1.9	433	-40 to +85
STM32F101ZC	256	32	LQFP144	6x16-bit		16x12-bit	2x12-bit	112	3		2	3+2					2 to 3.6	1.9	433	-40 to +85
STM32F101RD	384	48	LQFP64	6x16-bit		16x12-bit	2x12-bit	51	3		2	3+2					2 to 3.6	1.9	433	-40 to +85
STM32F101VD	384	48	LQFP100	6x16-bit		16x12-bit	2x12-bit	80	3		2	3+2					2 to 3.6	1.9	433	-40 to +85
STM32F101ZD	384	48	LQFP144	6x16-bit		16x12-bit	2x12-bit	112	3		2	3+2					2 to 3.6	1.9	433	-40 to +85
STM32F101RE	512	48	LQFP64	6x16-bit		16x12-bit	2x12-bit	51	3		2	3+2					2 to 3.6	1.9	433	-40 to +85
STM32F101VE	512	48	LQFP100	6x16-bit	16x12-bit	2x12-bit	80	3		2	3+2					2 to 3.6	1.9	433	-40 to +85	
STM32F101ZE	512	48	LQFP144	6x16-bit	16x12-bit	2x12-bit	112	3		2	3+2					2 to 3.6	1.9	433	-40 to +85	
STM32F101RF	768	80	LQFP64	12x16-bit	16x12-bit	2x12-bit	51	3		2	3+2					2 to 3.6	1.9	433	-40 to +85	
STM32F101VF	768	80	LQFP100	12x16-bit	16x12-bit	2x12-bit	80	3		2	3+2					2 to 3.6	1.9	433	-40 to +85	

STM32 F1 SERIES - ARM CORTEX™-M3 MAINSTREAM MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface								Supply voltage (V)	Supply current (I _{cc})		Maximum operating temperature range (°C)
				16-bit timers	Others				SPI	I ² S	I ² C	USART + UART ¹	CEC	USB FS	CAN 2.0B	SDIO		Ethernet MAC10 /100	Lowest power mode (µA)	
STM32F101ZF	768	80	LQFP64	12x16-bit	2 x WDG, RTC, 24-bit downcounter	16x12-bit	2x12-bit	112	3		2	3+2					2 to 3.6	1.9	433	-40 to +85
STM32F101RG	1024	80	LQFP64	12x16-bit		16x12-bit	2x12-bit	51	3		2	3+2					2 to 3.6	1.9	433	-40 to +85
STM32F101VG	1024	80	LQFP100	12x16-bit		16x12-bit	2x12-bit	80	3		2	3+2					2 to 3.6	1.9	433	-40 to +85
STM32F101ZG	1024	80	LQFP144	12x16-bit		16x12-bit	2x12-bit	112	3		2	3+2					2 to 3.6	1.9	433	-40 to +85
STM32F102 USB Access line - 48 MHz																				
STM32F102C4	16	4	LQFP48	2x16-bit	2 x WDG, RTC, 24-bit downcounter	10x12-bit		36	1		1	2					2.0 to 3.6	1.55	348	-40 to +85
STM32F102R4	16	4	LQFP64	2x16-bit		16x12-bit		51	1		1	2					2.0 to 3.6	1.55	348	-40 to +85
STM32F102C6	32	6	LQFP48	2x16-bit		10x12-bit		36	1		1	2					2.0 to 3.6	1.55	348	-40 to +85
STM32F102R6	32	6	LQFP64	2x16-bit		16x12-bit		51	1		1	2					2.0 to 3.6	1.55	348	-40 to +85
STM32F102C8	64	10	LQFP48	3x16-bit		10x12-bit		36	2		2	3					2.0 to 3.6	1.7	373	-40 to +85
STM32F102R8	64	10	LQFP64	3x16-bit		16x12-bit		51	2		2	3					2.0 to 3.6	1.7	373	-40 to +85
STM32F102CB	128	16	LQFP48	3x16-bit		10x12-bit		36	2		2	3					2.0 to 3.6	1.7	373	-40 to +85
STM32F102RB	128	16	LQFP64	3x16-bit		16x12-bit		51	2		2	3					2.0 to 3.6	1.7	373	-40 to +85
STM32F103 Performance line - 72 MHz CPU																				
STM32F103C4	16	6	LQFP48	3x16-bit	2 x WDG, RTC, 24-bit downcounter	10x12-bit		36	1		1	2					2.0 to 3.6	1.55	337	-40 to +105
STM32F103R4	16	6	LQFP64, TFBGA64	3x16-bit		16x12-bit		51	1		1	2					2.0 to 3.6	1.55	337	-40 to +105
STM32F103T4	16	6	VFQFPN36	3x16-bit		10x12-bit		26	1		1	2					2.0 to 3.6	1.55	337	-40 to +105
STM32F103C6	32	10	LQFP48	3x16-bit		10x12-bit		36	1		1	2					2.0 to 3.6	1.55	337	-40 to +105
STM32F103R6	32	10	LQFP64, TFBGA64	3x16-bit		16x12-bit		51	1		1	2					2.0 to 3.6	1.55	337	-40 to +105
STM32F103T6	32	10	VFQFPN36	3x16-bit		10x12-bit		26	1		1	2					2.0 to 3.6	1.55	373	-40 to +105
STM32F103C8	64	20	LQFP48	4x16-bit		10x12-bit		36	2		2	3					2.0 to 3.6	1.7	373	-40 to +105
STM32F103R8	64	20	LQFP64, TFBGA64	4x16-bit		16x12-bit		51	2		2	3					2.0 to 3.6	1.7	373	-40 to +105
STM32F103T8	64	20	VFQFPN36	4x16-bit		10x12-bit		26	1		1	2					2.0 to 3.6	1.7	373	-40 to +105
STM32F103V8	64	20	LFPGA100, LQFP100	4x16-bit		16x12-bit		80	2		2	3					2.0 to 3.6	1.7	373	-40 to +105
STM32F103CB	128	20	LQFP48, VFQFPN48	4x16-bit	10x12-bit		36	2		2	3					2.0 to 3.6	1.7	373	-40 to +105	

STM32 F1 SERIES - ARM CORTEX™-M3 MAINSTREAM MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface							Supply voltage (V)	Supply current (I _{cc})		Maximum operating temperature range (°C)	
				16-bit timers	Others				SPI	I ² S	I ² C	USART + UART ¹	CEC	USB FS	CAN 2.0B		SDIO	Ethernet MAC10/100		Lowest power mode (μA)
STM32F103RB	128	20	LQFP64, TFBGA64	4x16-bit	2 x WDG, RTC, 24-bit downcounter	16x12-bit		51	2		2	3		1	1		2.0 to 3.6	1.7	373	-40 to +105
STM32F103TB	128	20	VFPQFN36	4x16-bit		10x12-bit		26	1		1	2		1	1		2.0 to 3.6	1.7	373	-40 to +105
STM32F103VB	128	20	LFPGA100, LQFP100	4x16-bit		16x12-bit		80	2		2	3		1	1		2.0 to 3.6	1.7	373	-40 to +105
STM32F103RC	256	48	LQFP64, WLCSP64	8x16-bit		16x12-bit	2x12-bit	51	3	2	2	3+2		1	1	1	2.0 to 3.6	1.9	421	-40 to +105
STM32F103VC	256	48	LFPGA100, LQFP100	8x16-bit		16x12-bit	2x12-bit	80	3	2	2	3+2		1	1	1	2.0 to 3.6	1.9	421	-40 to +105
STM32F103ZC	256	48	LFPGA144, LQFP144	8x16-bit		21x12-bit	2x12-bit	112	3	2	2	3+2		1	1	1	2.0 to 3.6	1.9	421	-40 to +105
STM32F103RD	384	64	LQFP64, WLCSP64	8x16-bit		16x12-bit	2x12-bit	51	3	2	2	3+2		1	1	1	2.0 to 3.6	1.9	421	-40 to +105
STM32F103VD	384	64	LFPGA100, LQFP100	8x16-bit		16x12-bit	2x12-bit	80	3	2	2	3+2		1	1	1	2.0 to 3.6	1.9	421	-40 to +105
STM32F103ZD	384	64	LFPGA144, LQFP144	8x16-bit		21x12-bit	2x12-bit	112	3	2	2	3+2		1	1	1	2.0 to 3.6	1.9	421	-40 to +105
STM32F103RE	512	64	LQFP64, WLCSP64	8x16-bit		16x12-bit	2x12-bit	51	3	2	2	3+2		1	1	1	2.0 to 3.6	1.9	421	-40 to +105
STM32F103VE	512	64	LFPGA100, LQFP100	8x16-bit		16x12-bit	2x12-bit	80	3	2	2	3+2		1	1	1	2.0 to 3.6	1.9	421	-40 to +105
STM32F103ZE	512	64	LFPGA144, LQFP144	8x16-bit		21x12-bit	2x12-bit	112	3	2	2	3+2		1	1	1	2.0 to 3.6	1.9	421	-40 to +105
STM32F103RF	768	96	LQFP64	12x16-bit		16x12-bit	2x12-bit	51	3	2	2	3+2		1	1	1	2.0 to 3.6	1.9	421	-40 to +105
STM32F103VF	768	96	LQFP100	14x16-bit		16x12-bit	2x12-bit	80	3	2	2	3+2		1	1	1	2.0 to 3.6	1.9	421	-40 to +105
STM32F103ZF	768	96	LFPGA144, LQFP144	14x16-bit		21x12-bit	2x12-bit	112	3	2	2	3+2		1	1	1	2.0 to 3.6	1.9	421	-40 to +105
STM32F103RG	1024	96	LQFP64	12x16-bit	16x12-bit	2x12-bit	51	3	2	2	3+2		1	1	1	2.0 to 3.6	1.9	421	-40 to +105	
STM32F103VG	1024	96	LQFP100	14x16-bit	16x12-bit	2x12-bit	80	3	2	2	3+2		1	1	1	2.0 to 3.6	1.9	421	-40 to +105	
STM32F103ZG	1024	96	LFPGA144, LQFP144	14x16-bit	21x12-bit	2x12-bit	112	3	2	2	3+2		1	1	1	2.0 to 3.6	1.9	421	-40 to +105	

STM32 F1 SERIES - ARM CORTEX™-M3 MAINSTREAM MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface								Supply voltage (V)	Supply current (I _{cc})		Maximum operating temperature range (°C)	
				16-bit timers	Others				SPI	I ² S	I ² C	USART + UART ¹	CEC	USB FS	CAN 2.0B	SDIO		Ethernet MAC10/100	Lowest power mode (µA)		Run mode (per MHz) (µA)
STM32F105/107 Connectivity line - 72 MHz CPU																					
STM32F105R8	64	64	LQFP64	7x16-bit	2 x WDG, RTC, 24-bit downcounter	16x12-bit	2x12-bit	51	3	2	2	3+2		OTG	2			2.0 to 3.6	1.9	393	-40 to +105
STM32F105V8	64	64	LQFP100	7x16-bit		16x12-bit	2x12-bit	80	3	2	2	3+2		OTG	2			2.0 to 3.6	1.9	393	-40 to +105
STM32F105RB	128	64	LQFP64	7x16-bit		16x12-bit	2x12-bit	51	3	2	2	3+2		OTG	2			2.0 to 3.6	1.9	393	-40 to +105
STM32F105VB	128	64	LFPGA100, LQFP100	7x16-bit		16x12-bit	2x12-bit	80	3	2	2	3+2		OTG	2			2.0 to 3.6	1.9	393	-40 to +105
STM32F107RB	128	64	LQFP64	7x16-bit		16x12-bit	2x12-bit	51	3	2	2	3+2		OTG	2		Yes	2.0 to 3.6	1.9	393	-40 to +105
STM32F107VB	128	64	LQFP100	7x16-bit		16x12-bit	2x12-bit	80	3	2	2	3+2		OTG	2		Yes	2.0 to 3.6	1.9	393	-40 to +105
STM32F105RC	256	64	LQFP64	7x16-bit		16x12-bit	2x12-bit	51	3	2	2	3+2		OTG	2			2.0 to 3.6	1.9	393	-40 to +105
STM32F105VC	256	64	LQFP100	7x16-bit		16x12-bit	2x12-bit	80	3	2	2	3+2		OTG	2			2.0 to 3.6	1.9	393	-40 to +105
STM32F107RC	256	64	LQFP64	7x16-bit		16x12-bit	2x12-bit	51	3	2	2	3+2		OTG	2		Yes	2.0 to 3.6	1.9	393	-40 to +105
STM32F107VC	256	64	LFPGA100, LQFP100	7x16-bit		16x12-bit	2x12-bit	80	3	2	2	3+2		OTG	2		Yes	2.0 to 3.6	1.9	393	-40 to +105

Note:

1. Marked in the table (3+2) means 3 USART and 2 UART. All UARTs have LIN master/slave function. All USARTs have IrDA, ISO 7816, modem control and LIN master/slave functions.

STM32 F2 SERIES - ARM CORTEX™-M3 HIGH-PERFORMANCE MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface						Supply voltage (V)	Supply current (I _{CC})		Maximum operating temperature range (°C)	
				16-/32-bit timers	Others				SPI	I ² S	I ² C	USART + UART ²	USB OTG FS +FS/HS	CAN 2.0B		SDIO	Ethernet MAC10/100		Lowest power mode (μA)
STM32F2x5 line: USB OTG (FS/HS)¹, crypto/hash processor² - 120 MHz CPU																			
STM32F205RB	128	64	LQFP64	12x16-bit / 2x32-bit	2 x WDG, RTC, 24-bit downcounter	16x12-bit	2x12-bit	51	3	2	3	4+2	2	2	1	1.8 to 3.6	2.5	188	-40 to +105
STM32F205VB	128	64	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3	2	3	4+2	2	2	1	1.8 to 3.6	2.5	188	-40 to +105
STM32F205RC	256	96	LQFP64	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	51	3	2	3	4+2	2	2	1	1.8 to 3.6	2.5	188	-40 to +105
STM32F205VC	256	96	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3	2	3	4+2	2	2	1	1.8 to 3.6	2.5	188	-40 to +105
STM32F205ZC	256	96	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3	2	3	4+2	2	2	1	1.8 to 3.6	2.5	188	-40 to +105
STM32F205RE	512	128	LQFP64, WLCSP64	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	51	3	2	3	4+2	2	2	1	1.7/1.8 to 3.6	2.5	188	-40 to +105
STM32F215RE ²	512	128	LQFP64	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	51	3	2	3	4+2	2	2	1	1.8 to 3.6	2.5	188	-40 to +105
STM32F215VE ²	512	128	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3	2	3	4+2	2	2	1	1.8 to 3.6	2.5	188	-40 to +105
STM32F205VE	512	128	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3	2	3	4+2	2	2	1	1.8 to 3.6	2.5	188	-40 to +105
STM32F205ZE	512	128	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3	2	3	4+2	2	2	1	1.8 to 3.6	2.5	188	-40 to +105
STM32F215ZE ²	512	128	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3	2	3	4+2	2	2	1	1.8 to 3.6	2.5	188	-40 to +105
STM32F205RF	768	128	LQFP64	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	51	3	2	3	4+2	2	2	1	1.8 to 3.6	2.5	188	-40 to +105
STM32F205VF	768	128	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3	2	3	4+2	2	2	1	1.8 to 3.6	2.5	188	-40 to +105
STM32F205ZF	768	128	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3	2	3	4+2	2	2	1	1.8 to 3.6	2.5	188	-40 to +105

STM32 F2 SERIES - ARM CORTEX™-M3 HIGH-PERFORMANCE MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface							Supply voltage (V)	Supply current (I _{CC})		Maximum operating temperature range (°C)	
				16-/32-bit timers	Others				SPI	I ² S	I ² C	USART + UART ²	USB OTG FS +FS/HS	CAN 2.0B	SDIO		Ethernet MAC10/100	Lowest power mode (µA)		Run mode (per MHz) (µA)
STM32F205RG	1024	128	LQFP64, WLCSP64	12x16-bit / 2x32-bit	2 x WDG, RTC, 24-bit downcounter	16x12-bit	2x12-bit	51	3	2	3	4+2	2	2	1	1.7/1.8 to 3.6	2.5	188	-40 to +105	
STM32F215RG ²	1024	128	LQFP64	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	51	3	2	3	4+2	2	2	1	1.8 to 3.6	2.5	188	-40 to +105	
STM32F205VG	1024	128	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3	2	3	4+2	2	2	1	1.8 to 3.6	2.5	188	-40 to +105	
STM32F215VG ²	1024	128	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3	2	3	4+2	2	2	1	1.8 to 3.6	2.5	188	-40 to +105	
STM32F205ZG	1024	128	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3	2	3	4+2	2	2	1	1.8 to 3.6	2.5	188	-40 to +105	
STM32F215ZG ²	1024	128	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3	2	3	4+2	2	2	1	1.8 to 3.6	2.5	188	-40 to +105	
STM32F2x7 line: 2x USB OTG (FS/HS ¹), camera IF, crypto/hash processor ² - 120 MHz CPU																				
STM32F207VC	256	128	LQFP100	12x16-bit / 2x32-bit	2 x WDG, RTC, 24-bit downcounter	16x12-bit	2x12-bit	82	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F207ZC	256	128	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F207IC	256	128	UFPGA176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F207VE	512	128	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F217VE ²	512	128	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F207ZE	512	128	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F217ZE ²	512	128	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F207IE	512	128	UFPGA176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F217IE ²	512	128	UFPGA176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F207VF	768	128	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105

STM32 F2 SERIES - ARM CORTEX™-M3 HIGH-PERFORMANCE MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface							Supply voltage (V)	Supply current (I _{cc})		Maximum operating temperature range (°C)	
				16-/32-bit timers	Others				SPI	I ² S	I ² C	USART + UART ¹	USB OTG FS +FS/HS	CAN 2.0B	SDIO		Ethernet MAC10/100	Lowest power mode (μA)		Run mode (per MHz) (μA)
STM32F207ZF	768	128	LQFP144	12x16-bit / 2x32-bit	2 x WDG, RTC, 24-bit downcounter	24x12-bit	2x12-bit	114	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F207IF	768	128	UFBGA176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F207VG	1024	128	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F217VG ²	1024	128	LQFP100	12x16-bit / 2x32-bit		16x12-bit	2x12-bit	82	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F207ZG	1024	128	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F217ZG ²	1024	128	LQFP144	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	114	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F207IG	1024	128	LQFP176, UFBGA176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105
STM32F217IG ²	1024	128	LQFP176, UFBGA176	12x16-bit / 2x32-bit		24x12-bit	2x12-bit	140	3	2	2	4+2	2	2	1	Yes	1.8 to 3.6	2.5	188	-40 to +105

Notes:

1. HS requires an external PHY connected to ULPI interface

2. Crypto/hash processor on STM32F217 and STM32F215

3. Marked in the table (3+2) means 3 USART and 2 UART. All UARTs have LIN master/slave function. All USARTs have IrDA, ISO 7816, modem control and LIN master/slave functions.

STM32 L1 SERIES - ARM CORTEX®-M3 ULTRA-LOW-POWER MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (Kbytes)	Package	Timer functions		Analog			I/Os	Serial interface						Supply voltage (V)	Supply current (I _{cc})		Display controller (LCD)	Operating temperature range (°C)	
					16-/32-bit timers	Others	ADC	DAC	Op Amp		SPI	I ² S	I ² C	USART	USB FS	SDIO		FMC	Lowest power mode (µA)			Run mode (per MHz) (µA)
STM32L100 Value line - 32 MHz CPU																						
STM32L100C6	32	4	2	UFQFPN48	6x16-bit	SysTick, 2 x WDG, RTCv1	14x12-bit	2x12-bit	N/A	37	2	N/A	2	3	1	N/A	N/A	1.8 to 3.6	0.3	177	4x16	-40 to +85
STM32L100R8	64	8	2	LQFP64	6x16-bit		20x12-bit	2x12-bit	N/A	51	2	N/A	2	3	1	N/A	N/A	1.8 to 3.6	0.3	177	4x32/8x28	-40 to +85
STM32L100RB	128	10	2	LQFP64	6x16-bit	SysTick, 2 x WDG, RTCv2	20x12-bit	2x12-bit	N/A	51	2	N/A	2	3	1	N/A	N/A	1.8 to 3.6	0.3	177	4x32/8x28	-40 to +85
STM32L100C6-A	32	4	2	UFQFPN48	6x16-bit		14x12-bit	2x12-bit	N/A	37	2	N/A	2	2	1	N/A	N/A	1.8 to 3.6	0.3	177	4x16	-40 to +85
STM32L100R8-A	64	8	2	LQFP64	6x16-bit	SysTick, 2 x WDG, RTCv2	20x12-bit	2x12-bit	N/A	51	2	N/A	2	3	1	N/A	N/A	1.8 to 3.6	0.3	177	4x32/8x28	-40 to +85
STM32L100RB-A	128	10	2	LQFP64	6x16-bit		20x12-bit	2x12-bit	N/A	51	2	N/A	2	3	1	N/A	N/A	1.8 to 3.6	0.3	177	4x32/8x28	-40 to +85
STM32L100RC	256	16	4	LQFP64	8x16-bit	SysTick, 2 x WDG, RTCv2	21x12-bit	2x12-bit	2	50	3	2	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177	4x32/8x28	-40 to +85
STM32L151/152 - 32 MHz CPU																						
STM32L151C6	32	10	4	LQFP48, UFQFPN48	6x16-bit	SysTick, 2 x WDG, RTCv1	14x12-bit	2x12-bit	N/A	37	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85
STM32L151R6	32	10	4	LQFP64, TFBGA64	6x16-bit		20x12-bit	2x12-bit	N/A	51	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85
STM32L152C6	32	10	4	LQFP48, UFQFPN48	6x16-bit		14x12-bit	2x12-bit	N/A	37	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177	4x18	-40 to +85
STM32L152R6	32	10	4	LQFP64, TFBGA64	6x16-bit		20x12-bit	2x12-bit	N/A	51	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177	4x32/8x28	-40 to +85
STM32L151C8	64	10	4	LQFP48, UFQFPN48	6x16-bit		14x12-bit	2x12-bit	N/A	37	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85
STM32L151R8	64	10	4	LQFP64, TFBGA64	6x16-bit		20x12-bit	2x12-bit	N/A	51	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85
STM32L151V8	64	10	4	LQFP100, UFBGA100	6x16-bit		24x12-bit	2x12-bit	N/A	83	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85
STM32L152C8	64	10	4	LQFP48, UFQFPN48	6x16-bit		14x12-bit	2x12-bit	N/A	37	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177	4x18	-40 to +85
STM32L152R8	64	10	4	LQFP64, TFBGA64	6x16-bit		20x12-bit	2x12-bit	N/A	51	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177	4x32/8x28	-40 to +85
STM32L152V8	64	10	4	LQFP100, UFBGA100	6x16-bit		24x12-bit	2x12-bit	N/A	83	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177	4x44/8x40	-40 to +85
STM32L151CB	128	16	4	LQFP48, UFQFPN48	6x16-bit	SysTick, 2 x WDG, RTCv1	14x12-bit	2x12-bit	N/A	37	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85

STM32 L1 SERIES - ARM CORTEX®-M3 ULTRA-LOW-POWER MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (Kbytes)	Package	Timer functions		Analog			I/Os	Serial interface						Supply voltage (V)	Supply current (I _{cc})		Display controller (LCD)	Operating temperature range (°C)	
					16-/32-bit timers	Others	ADC	DAC	Op Amp		SPI	I ² S	I ² C	USART	USB FS	SDIO		FMC	Lowest power mode (µA)			Run mode (per MHz) (µA)
STM32L151RB	128	16	4	LQFP64, TFBGA64	6x16-bit	SysTick, 2 x WDG, RTCv1	20x12-bit	2x12-bit	N/A	51	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85
STM32L151VB	128	16	4	LQFP100, UFBGA100	6x16-bit		24x12-bit	2x12-bit	N/A	83	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85
STM32L152CB	128	16	4	LQFP48, UFQFPN48	6x16-bit		14x12-bit	2x12-bit	N/A	37	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177	4x18	-40 to +85
STM32L152RB	128	16	4	LQFP64, TFBGA64	6x16-bit		20x12-bit	2x12-bit	N/A	51	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177	4x32/8x28	-40 to +85
STM32L152VB	128	16	4	LQFP100, UFBGA100	6x16-bit		24x12-bit	2x12-bit	N/A	83	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177	4x44/8x40	-40 to +85
STM32L151C6-A	32	16	4	LQFP48, UFQFPN48	8x16-bit	SysTick, 2 x WDG, RTCv2	14x12-bit	2x12-bit	N/A	37	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85
STM32L151R6-A	32	16	4	LQFP64, TFBGA64	8x16-bit		20x12-bit	2x12-bit	N/A	51	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85
STM32L152C6-A	32	16	4	LQFP48, UFQFPN48	8x16-bit		14x12-bit	2x12-bit	N/A	37	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177	4x18	-40 to +85
STM32L152R6-A	32	16	4	LQFP64, TFBGA64	8x16-bit		20x12-bit	2x12-bit	N/A	51	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177	4x32/8x28	-40 to +85
STM32L151C8-A	64	32	4	LQFP48, UFQFPN48	8x16-bit		14x12-bit	2x12-bit	N/A	37	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85
STM32L151R8-A	64	32	4	LQFP64, TFBGA64	8x16-bit		20x12-bit	2x12-bit	N/A	51	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85
STM32L151V8-A	64	32	4	LQFP100, UFBGA100	8x16-bit		24x12-bit	2x12-bit	N/A	83	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85
STM32L152C8-A	64	32	4	LQFP48, UFQFPN48	8x16-bit		14x12-bit	2x12-bit	N/A	37	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177	4x18	-40 to +85
STM32L152R8-A	64	32	4	LQFP64, TFBGA64	8x16-bit		20x12-bit	2x12-bit	N/A	51	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177	4x32/8x28	-40 to +85
STM32L152V8-A	64	32	4	LQFP100, UFBGA100	8x16-bit		24x12-bit	2x12-bit	N/A	83	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177	4x44/8x40	-40 to +85
STM32L151C8-A	128	32	4	LQFP48, UFQFPN48	8x16-bit		14x12-bit	2x12-bit	N/A	37	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85

STM32 L1 SERIES - ARM CORTEX®-M3 ULTRA-LOW-POWER MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (Kbytes)	Package	Timer functions		Analog			I/Os	Serial interface						Supply voltage (V)	Supply current (I _{cc})		Display controller (LCD)	Operating temperature range (°C)	
					16-/32-bit timers	Others	ADC	DAC	Op Amp		SPI	I ² S	I ² C	USART	USB FS	SDIO		FMC	Lowest power mode (µA)			Run mode (per MHz) (µA)
STM32L151RB-A	128	32	4	LQFP64, TFBGA64	8x16-bit	SysTick, 2 x WDG, RTCv2	20x12-bit	2x12-bit	N/A	51	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85
STM32L151VB-A	128	32	4	LQFP100, UFBGA100	8x16-bit		24x12-bit	2x12-bit	N/A	83	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85
STM32L152CB-A	128	32	4	LQFP48, UFQFPN48	8x16-bit		14x12-bit	2x12-bit	N/A	37	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177	4x18	-40 to +85
STM32L152RB-A	128	32	4	LQFP64, TFBGA64	8x16-bit		20x12-bit	2x12-bit	N/A	51	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177	4x32/8x28	-40 to +85
STM32L152VB-A	128	32	4	LQFP100, UFBGA100	8x16-bit		24x12-bit	2x12-bit	N/A	83	2	N/A	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177	4x44/8x40	-40 to +85
STM32L151CC	256	32	8	LQFP48, UFQFPN48	8x16-bit/ 1x32-bit	SysTick, 2 x WDG, RTCv2	14x12-bit	2x12-bit	2	37	3	2	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85
STM32L151UC	256	32	8	WLCSP63	8x16-bit/ 1x32-bit		21x12-bit	2x12-bit	2	51	3	2	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85
STM32L151RC	256	32	8	LQFP64	8x16-bit/ 1x32-bit		21x12-bit	2x12-bit	2	51	3	2	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85
STM32L151RC-A	256	32	8	LQFP64, WLCSP64	8x16-bit/ 1x32-bit		21x12-bit	2x12-bit	2	51	3	2	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85
STM32L151VC	256	32	8	LQFP100	8x16-bit/ 1x32-bit		25x12-bit	2x12-bit	2	83	3	2	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85
STM32L151QC	256	32	8	UFBGA132	8x16-bit/ 1x32-bit		40x12-bit	2x12-bit	2	109	3	2	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85
STM32L151ZC	256	32	8	LQFP144	8x16-bit/ 1x32-bit		40x12-bit	2x12-bit	2	115	3	2	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85
STM32L152CC	256	32	8	LQFP48, UFQFPN48	8x16-bit/ 1x32-bit		14x12-bit	2x12-bit	2	37	3	2	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177	4x18	-40 to +85
STM32L152UC	256	32	8	WLCSP63	8x16-bit/ 1x32-bit		21x12-bit	2x12-bit	2	51	3	2	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177	4x32/8x28	-40 to +85
STM32L152RC	256	32	8	LQFP64	8x16-bit/ 1x32-bit		21x12-bit	2x12-bit	2	51	3	2	2	3	1			1.65 to 3.6	0.3	177	4x32/8x28	-40 to +85
STM32L152RC-A	256	32	8	LQFP64, WLCSP64	8x16-bit/ 1x32-bit		21x12-bit	2x12-bit	2	51	3	2	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177	4x32/8x28	-40 to +85

STM32 L1 SERIES - ARM CORTEX®-M3 ULTRA-LOW-POWER MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (Kbytes)	Package	Timer functions		Analog			I/Os	Serial interface						Supply voltage (V)	Supply current (I _{CC})		Display controller (LCD)	Operating temperature range (°C)	
					16-/32-bit timers	Others	ADC	DAC	Op Amp		SPI	I ² S	I ² C	USART	USB FS	SDIO		FMC	Lowest power mode (µA)			Run mode (per MHz) (µA)
STM32L152VC	256	32	8	LQFP100	8x16-bit / 1x32-bit		25x12-bit	2x12-bit	2	83	3	2	2	3	1			1.65 to 3.6	0.3	177	4x44/8x40	-40 to +85
STM32L152QC	256	32	8	UFBGA132	8x16-bit / 1x32-bit		40x12-bit	2x12-bit	2	109	3	2	2	3	1			1.65 to 3.6	0.3	177	4x44/8x40	-40 to +85
STM32L152ZC	256	32	8	LQFP144	8x16-bit / 1x32-bit		40x12-bit	2x12-bit	2	115	3	2	2	3	1			1.65 to 3.6	0.3	177	4x44/8x40	-40 to +85
STM32L151QD	384	48	12	UFBGA132	8x16-bit / 1x32-bit		40x12-bit	2x12-bit	3	109	3	2	2	5	1	1	1	1.65 to 3.6	0.3	177		-40 to +85
STM32L151RD	384	48	12	LQFP64, WLCSP64	8x16-bit / 1x32-bit		21x12-bit	2x12-bit	3	51	3	2	2	5	1	1	1	1.65 to 3.6	0.3	177		-40 to +85
STM32L151VD	384	48	12	LQFP100	8x16-bit / 1x32-bit		25x12-bit	2x12-bit	3	83	3	2	2	5	1	1	1	1.65 to 3.6	0.3	177		-40 to +85
STM32L151ZD	384	48	12	LQFP144	8x16-bit / 1x32-bit		40x12-bit	2x12-bit	3	115	3	2	2	5	1	1	1	1.65 to 3.6	0.3	177		-40 to +85
STM32L152QD	384	48	12	UFBGA132	8x16-bit / 1x32-bit	SysTick, 2 x WDG, RTCv2	40x12-bit	2x12-bit	3	109	3	2	2	5	1	1	1	1.65 to 3.6	0.3	177	4x44/8x40	-40 to +85
STM32L152RD	384	48	12	LQFP64, WLCSP64	8x16-bit / 1x32-bit		21x12-bit	2x12-bit	3	51	3	2	2	5	1	1	N/A	1.65 to 3.6	0.3	177	4x32/8x28	-40 to +85
STM32L152VD	384	48	12	LQFP100	8x16-bit / 1x32-bit		25x12-bit	2x12-bit	3	83	3	2	2	5	1	1	1	1.65 to 3.6	0.3	177	4x44/8x40	-40 to +85
STM32L152ZD	384	48	12	LQFP144	8x16-bit / 1x32-bit		40x12-bit	2x12-bit	3	115	3	2	2	5	1	1	1	1.65 to 3.6	0.3	177	4x44/8x40	-40 to +85
STM32L151QE	512	80	16	UFBGA132	8x16-bit / 1x32-bit		40x12-bit	2x12-bit	2	109	3	2	2	5	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85
STM32L151RE	512	80	16	LQFP64	8x16-bit / 1x32-bit		21x12-bit	2x12-bit	2	51	3	2	2	5	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85
STM32L151VE	512	80	16	LQFP100, WLCSP104	8x16-bit / 1x32-bit		25x12-bit	2x12-bit	2	83	3	2	2	5	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85
STM32L151ZE	512	80	16	LQFP144	8x16-bit / 1x32-bit		40x12-bit	2x12-bit	2	115	3	2	2	5	1	N/A	N/A	1.65 to 3.6	0.3	177		-40 to +85
STM32L152QE	512	80	16	UFBGA132	8x16-bit / 1x32-bit		40x12-bit	2x12-bit	2	109	3	2	2	5	1	N/A	N/A	1.65 to 3.6	0.3	177	4x44/8x40	-40 to +85

STM32 L1 SERIES - ARM CORTEX®-M3 ULTRA-LOW-POWER MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (Kbytes)	Package	Timer functions		Analog			I/Os	Serial interface						Supply voltage (V)	Supply current (I _{cc})		Display controller (LCD)	Operating temperature range (°C)	
					16-/32-bit timers	Others	ADC	DAC	Op Amp		SPI	I ² S	I ² C	USART	USB FS	SDIO		FMC	Lowest power mode (µA)			Run mode (per MHz) (µA)
STM32L152RE	512	80	16	LQFP64	8x16-bit / 1x32-bit	SysTick, 2 x WDG, RTCV2	21x12-bit	2x12-bit	2	51	3	2	2	5	1	N/A	N/A	1.65 to 3.6	0.3	177	4x32/8x28	-40 to +85
STM32L152VE	512	80	16	LQFP100, WLCSP104	8x16-bit / 1x32-bit		25x12-bit	2x12-bit	2	83	3	2	2	5	1	N/A	N/A	1.65 to 3.6	0.3	177	4x44/8x40	-40 to +85
STM32L152ZE	512	80	16	LQFP144	8x16-bit / 1x32-bit		40x12-bit	2x12-bit	2	115	3	2	2	5	1	N/A	N/A	1.65 to 3.6	0.3	177	4x44/8x40	-40 to +85
STM32L162 line with LCD and AES - 32 MHz CPU																						
STM32L162RC	256	32	8	LQFP64	8x16-bit / 1x32-bit	SysTick, 2 x WDG, RTCV2	21x12-bit	2x12-bit	2	51	3	2	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177	4x32/8x28	-40 to +85
STM32L162RC-A	256	32	8	LQFP64	8x16-bit / 1x32-bit		21x12-bit	2x12-bit	2	51	3	2	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177	4x32/8x28	-40 to +85
STM32L162VC	256	32	8	LQFP100	8x16-bit / 1x32-bit		25x12-bit	2x12-bit	2	83	3	2	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177	4x44/8x40	-40 to +85
STM32L162VC-A	256	32	8	LQFP100	8x16-bit / 1x32-bit		25x12-bit	2x12-bit	2	83	3	2	2	3	1	N/A	N/A	1.65 to 3.6	0.3	177	4x44/8x40	-40 to +85
STM32L162QD	384	48	12	UFPGA132	8x16-bit / 1x32-bit		40x12-bit	2x12-bit	3	109	3	2	2	5	1	1	1	1.65 to 3.6	0.3	177	4x44/8x40	-40 to +85
STM32L162RD	384	48	12	LQFP64	8x16-bit / 1x32-bit		21x12-bit	2x12-bit	3	51	3	2	2	5	1	1	N/A	1.65 to 3.6	0.3	177	4x32/8x28	-40 to +85
STM32L162VD	384	48	12	LQFP100	8x16-bit / 1x32-bit		25x12-bit	2x12-bit	3	83	3	2	2	5	1	1	1	1.65 to 3.6	0.3	177	4x44/8x40	-40 to +85
STM32L162ZD	384	48	12	LQFP144	8x16-bit / 1x32-bit		40x12-bit	2x12-bit	3	115	3	2	2	5	1	1	1	1.65 to 3.6	0.3	177	4x44/8x40	-40 to +85
STM32L162RE	512	80	16	LQFP64	8x16-bit / 1x32-bit		21x12-bit	2x12-bit	2	51	3	2	2	5	1			1.65 to 3.6	0.3	177	4x32/8x28	-40 to +85
STM32L162VE	512	80	16	LQFP100	8x16-bit / 1x32-bit		25x12-bit	2x12-bit	2	83	3	2	2	5	1			1.65 to 3.6	0.3	177	4x44/8x40	-40 to +85
STM32L162ZE	512	80	16	LQFP144	8x16-bit / 1x32-bit	40x12-bit	2x12-bit	2	115	3	2	2	5	1			1.65 to 3.6	0.3	177	4x44/8x40	-40 to +85	

Notes:

Touch-sensing FW library available for all STM32L15x and STM32L16x devices

STM32 L0 SERIES - ARM CORTEX®-M0+ ULTRA-LOW-POWER MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (Kbytes)	Package	Timer functions		Analog		I/Os	Serial interface						Supply voltage (V)	Supply current (I _{CC})		Display controller (LCD)	Operating temperature range (°C)
					16-/32-bit timers + LP ¹ 16-bit timers	Others	ADC ²	DAC		SPI	I ² S	I ² C	USART + LP ¹ UART	USB FS ³	AES		Lowest power mode (µA)	Run mode (per MHz) (µA)		
STM32L0x1 - 32 MHz CPU - Access line																				
STM32L051C6	32	8	2	LQFP48	5x16-bit	SysTick, 2 x WDG, RTC, LTC ⁴	10x12-bit		37	2	1	2	2+1			1.65 to 3.6	0.25	139		-40 to +85
STM32L051K6	32	8	2	LQFP32 UFQFPN32	5x16-bit		10x12-bit		27	2	1	2	2+1			1.65 to 3.6	0.25	139		-40 to +85
STM32L051R6	32	8	2	LQFP64 TFBGA64	5x16-bit		16x12-bit		51	2	1	2	2+1			1.65 to 3.6	0.25	139		-40 to +85
STM32L051C8	64	8	2	LQFP48	5x16-bit		10x12-bit		37	2	1	2	2+1			1.65 to 3.6	0.25	139		-40 to +105
STM32L051K8	64	8	2	LQFP32	5x16-bit		10x12-bit		27	2	1	2	2+1			1.65 to 3.6	0.25	139		-40 to +105
STM32L051R8	64	8	2	LQFP64 TFBGA64	5x16-bit		16x12-bit		51	2	1	2	2+1			1.65 to 3.6	0.25	139		-40 to +105
STM32L0x2 - 32 MHz CPU - USB line																				
STM32L052C6	32	8	2	LQFP48	4x16-bit	SysTick, 2 x WDG, RTC, LTC ⁴	10x12-bit	1x12-bit	37	2	1	2	2+1	1		1.65 to 3.6	0.25	139		-40 to +85
STM32L052K6	32	8	2	LQFP32	4x16-bit		10x12-bit	1x12-bit	27	2	1	2	2+1	1		1.65 to 3.6	0.25	139		-40 to +85
STM32L052R6	32	8	2	LQFP64 TFBGA64	4x16-bit		16x12-bit	1x12-bit	51	2	1	2	2+1	1		1.65 to 3.6	0.25	139		-40 to +85
STM32L052C8	64	8	2	LQFP48	4x16-bit		10x12-bit	1x12-bit	37	2	1	2	2+1	1		1.65 to 3.6	0.25	139		-40 to +105
STM32L052K8	64	8	2	LQFP32 UFQFPN32	4x16-bit		10x12-bit	1x12-bit	27	2	1	2	2+1	1		1.65 to 3.6	0.25	139		-40 to +105
STM32L052R8	64	8	2	LQFP64 TFBGA64	4x16-bit		16x12-bit	1x12-bit	51	2	1	2	2+1	1		1.65 to 3.6	0.25	139		-40 to +105
STM32L062K8	64	8	2	LQFP64	4x16-bit		10x12-bit	1x12-bit	27	2	1	2	2+1	1	Yes	1.65 to 3.6	0.25	139		-40 to +85

STM32 L0 SERIES - ARM CORTEX®-M0+ ULTRA-LOW-POWER MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (Kbytes)	Package	Timer functions		Analog		I/Os	Serial interface						Supply voltage (V)	Supply current (I _{CC})		Display controller (LCD)	Operating temperature range (°C)
					16-/32-bit timers + LP ¹ 16-bit timers	Others	ADC ²	DAC		SPI	I ² S	I ² C	USART + LP ¹ UART	USB FS ³	AES		Lowest power mode (μA)	Run mode (per MHz) (μA)		
STM32L0x3 - 32MHz - USB and LCD line																				
STM32L053C6	32	8	2	LQFP48	4x16-bit	SysTick, 2 x WDG, RTC, LTC ⁴	10x12-bit	1x12-bit	37	2	1	2	2+1	1		1.65 to 3.6	0.25	139	4x18	-40 to +85
STM32L053R6	32	8	2	LQFP64 TFBGA64	4x16-bit		16x12-bit	1x12-bit	51	2	1	2	2+1	1		1.65 to 3.6	0.25	139	4x31/8x28	-40 to +85
STM32L053C8	64	8	2	LQFP48	4x16-bit		10x12-bit	1x12-bit	37	2	1	2	2+1	1		1.65 to 3.6	0.25	139	4x18	-40 to +105
STM32L053R8	64	8	2	LQFP64 TFBGA64	4x16-bit		16x12-bit	1x12-bit	51	2	1	2	2+1	1		1.65 to 3.6	0.25	139	4x31/8x28	-40 to +105
STM32L063C8	64	8	2	LQFP48	4x16-bit		10x12-bit	1x12-bit	37	2	1	2	2+1	1	Yes	1.65 to 3.6	0.25	139	4x18	-40 to +85
STM32L063R8	64	8	2	LQFP64 TFBGA64	4x16-bit		16x12-bit	1x12-bit	51	2	1	2	2+1	1	Yes	1.65 to 3.6	0.25	139	4x31/8x28	-40 to +85

Note:

1. Low-power – available in ultra-low-power modes
2. Hardware oversampling capable
3. Crystal-less
4. Lowpower Time Counter

STM8 – 8-bit microcontroller families



STM8S SERIES – MAINSTREAM MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (bytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface					Supply voltage (V)	Supply current (I _{cc})		Maximum operating temperature range (°C)
					8-/16-bit timers	Others				CAN	SPI	I ² C	UART (IrDA, ISO 7816)	Other		Lowest power mode (µA)	Run mode (per MHz) (µA)	
STM8S003/005/007 Value line - 16 MHz CPU																		
STM8S003F3	8	1	128	TSSOP20, UFQFPN20	1x8-bit / 2x16-bit	2 x WDG, beeper	5x10-bit		16		1	1	1		2.95 to 5.5	5	230	-40 to +85
STM8S003K3	8	1	128	LQFP32	1x8-bit / 2x16-bit		4x10-bit		28		1	1	1		2.95 to 5.5	5	230	-40 to +85
STM8S005C6	32	2	128	LQFP48	1x8-bit / 3x16-bit		10x10-bit		38		1	1	1		2.95 to 5.5	5	430	-40 to +85
STM8S005K6	32	2	128	LQFP32	1x8-bit / 3x16-bit		7x10-bit		25		1	1	1		2.95 to 5.5	5	430	-40 to +85
STM8S007C8	64	6	128	LQFP48	1x8-bit / 3x16-bit		10x10-bit		38		1	1	2		2.95 to 5.5	5	500	-40 to +85
STM8S103/105 Access line - 16 MHz CPU																		
STM8S103F2	4	1	640	S020, TSSOP20, UFQFPN20	1x8-bit / 2x16-bit	2 x WDG, beeper	5x10-bit		16		1	1	1		2.95 to 5.5	5	230	-40 to +125
STM8S103F3	8	1	640	S020, TSSOP20, UFQFPN20	1x8-bit / 2x16-bit		5x10-bit		16		1	1	1		2.95 to 5.5	5	230	-40 to +125
STM8S103K3	8	1	640	LQFP32, PDIP32, UFQFPN32	1x8-bit / 2x16-bit		4x10-bit		28		1	1	1		2.95 to 5.5	5	230	-40 to +125
STM8S105C4	16	2	1024	LQFP48	1x8-bit / 3x16-bit		10x10-bit		38		1	1	1		2.95 to 5.5	5	430	-40 to +125
STM8S105K4	16	2	1024	LQFP32, PDIP32, UFQFPN32	1x8-bit / 3x16-bit		7x10-bit		25		1	1	1		2.95 to 5.5	5	430	-40 to +125
STM8S105S4	16	2	1024	LQFP44	1x8-bit / 3x16-bit		9x10-bit		34		1	1	1		2.95 to 5.5	5	430	-40 to +125
STM8S105C6	32	2	1024	LQFP48	1x8-bit / 3x16-bit		10x10-bit		38		1	1	1		2.95 to 5.5	5	430	-40 to +125

STM8S SERIES – MAINSTREAM MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (bytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface					Supply voltage (V)	Supply current (Icc)		Maximum operating temperature range (°C)
					8-/16-bit timers	Others				CAN	SPI	I ² C	UART (IrDA, ISO 7816)	Other		Lowest power mode (µA)	Run mode (per MHz) (µA)	
STM8S105K6	32	2	1024	LQFP32, PDIP32, UFQFPN32	1x8-bit / 3x16-bit	2 x WDG, beeper	7x10-bit		25		1	1	1		2.95 to 5.5	5	430	-40 to +125
STM8S105S6	32	2	1024	LQFP44	1x8-bit / 3x16-bit		9x10-bit		34		1	1	1		2.95 to 5.5	5	430	-40 to +125
STM8S207/208 Performance line - 24 MHz CPU																		
STM8S207C6	32	6	1024	LQFP48	1x8-bit / 3x16-bit	2 x WDG, beeper	10x10-bit		38		1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S207K6	32	6	1024	LQFP32	1x8-bit / 3x16-bit		7x10-bit		25		1	1	1		2.95 to 5.5	5	500	-40 to +125
STM8S207R6	32	6	1024	LQFP64	1x8-bit / 3x16-bit		16x10-bit		52		1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S207S6	32	6	1024	LQFP44	1x8-bit / 3x16-bit		9x10-bit		34		1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S208C6	32	6	2048	LQFP48	1x8-bit / 3x16-bit		10x10-bit		38	1	1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S208R6 ¹	32	6	2048	LQFP64	1x8-bit / 3x16-bit		16x10-bit		52	1	1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S208S6	32	6	1536	LQFP44	1x8-bit / 3x16-bit		9x10-bit		34	1	1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S207C8	64	6	1536	LQFP48	1x8-bit / 3x16-bit		10x10-bit		38		1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S207K8	64	6	1024	LQFP32	1x8-bit / 3x16-bit		7x10-bit		25		1	1	1		2.95 to 5.5	5	500	-40 to +125
STM8S207M8	64	6	2048	LQFP80	1x8-bit / 3x16-bit		16x10-bit		68		1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S207R8	64	6	1536	LQFP64	1x8-bit / 3x16-bit		16x10-bit		52		1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S207S8	64	6	1536	LQFP44	1x8-bit / 3x16-bit		9x10-bit		34		1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S208C8	64	6	2048	LQFP48	1x8-bit / 3x16-bit		10x10-bit		38	1	1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S208M8 ¹	64	6	2048	LQFP80	1x8-bit / 3x16-bit		16x10-bit		68	1	1	1	2		2.95 to 5.5	5	500	-40 to +125

STM8S SERIES – MAINSTREAM MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (bytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface					Supply voltage (V)	Supply current (I _{cc})		Maximum operating temperature range (°C)
					8-/16-bit timers	Others				CAN	SPI	I ² C	UART (IrDA, ISO 7816)	Other		Lowest power mode (µA)	Run mode (per MHz) (µA)	
STM8S208R8	64	6	2048	LQFP64	1x8-bit / 3x16-bit	2 x WDG, beeper	16x10-bit		52	1	1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S208S8 ¹	64	6	1536	LQFP44	1x8-bit / 3x16-bit		9x10-bit		34	1	1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S207CB	128	6	2048	LQFP48	1x8-bit / 3x16-bit		10x10-bit		38		1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S207MB	128	6	2048	LQFP80	1x8-bit / 3x16-bit		16x10-bit		68		1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S207RB	128	6	2048	LQFP64	1x8-bit / 3x16-bit		16x10-bit		52		1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S207SB	128	6	1536	LQFP44	1x8-bit / 3x16-bit		9x10-bit		34		1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S208CB	128	6	2048	LQFP48	1x8-bit / 3x16-bit		10x10-bit		38	1	1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S208MB	128	6	2048	LQFP80	1x8-bit / 3x16-bit		16x10-bit		68	1	1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S208RB	128	6	2048	LQFP64	1x8-bit / 3x16-bit		16x10-bit		52	1	1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S208SB ¹	128	6	1536	LQFP44	1x8-bit / 3x16-bit		9x10-bit		34	1	1	1	2		2.95 to 5.5	5	500	-40 to +125
STM8S903/STM8SPLNB1 Application specific line - 16 MHz CPU																		
STM8S903F3	8	1	640	S020, TSSOP20, UFQFPN20	1x8-bit / 2x16-bit	2 x WDG, beeper	5x10-bit		16		1	1	1		2.95 to 5.5	5	230	-40 to +125
STM8S903K3	8	1	640	LQFP32, PDIP32, UFQFPN32	1x8-bit / 2x16-bit		7x10-bit		28		1	1	1		2.95 to 5.5	5	230	-40 to +125
STM8SPLNB1	8	1	640	S020, TSSOP20, UFQFPN20			5x10-bit					4	2xDiSEqC	2.95 to 5.5	5	230	-40 to +85	

Note:

1. On demand only

STM8AF SERIES – MAINSTREAM AUTOMOTIVE MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (bytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface						Supply voltage (V)	Supply current (I _{cc})		Maximum operating temperature range (°C)
					8-/16-bit timers	Others				CAN	LIN-UART	USART (IrDA, ISO 7816, LIN 1.3, LIN 2.0)	SPI	I ² C	IRTx		Lowest power mode (μA)	Run mode (per MHz) (μA)	
STM8AF Series																			
STM8AF52 CAN and LIN line - Up to 24 MHz CPU																			
STM8AF5268	32	6	1024	LQFP48	1x8-bit / 3x16-bit	IWDG, WWDG, AWU	10x10-bit		38	1	1	1	1	1	3 to 5.5	5	500	-40 to +150	
STM8AF5269	32	6	1024	LQFP64	1x8-bit / 3x16-bit		16x10-bit		54	1	1	1	1	1	3 to 5.5	5	500	-40 to +150	
STM8AF5288	64	6	2048	LQFP48	1x8-bit / 3x16-bit		10x10-bit		38	1	1	1	1	1	3 to 5.5	5	500	-40 to +150	
STM8AF5289	64	6	2048	LQFP64	1x8-bit / 3x16-bit		16x10-bit		54	1	1	1	1	1	3 to 5.5	5	500	-40 to +150	
STM8AF528A	64	6	2048	LQFP80	1x8-bit / 3x16-bit		16x10-bit		70	1	1	1	1	1	3 to 5.5	5	500	-40 to +150	
STM8AF52A8	128	6	2048	LQFP48	1x8-bit / 3x16-bit		10x10-bit		38	1	1	1	1	1	3 to 5.5	5	500	-40 to +150	
STM8AF52A9	128	6	2048	LQFP64	1x8-bit / 3x16-bit		16x10-bit		54	1	1	1	1	1	3 to 5.5	5	500	-40 to +150	
STM8AF52AA	128	6	2048	LQFP80	1x8-bit / 3x16-bit		16x10-bit		70	1	1	1	1	1	3 to 5.5	5	500	-40 to +150	
STM8AF62 LIN line - Up to 24 MHz CPU																			
STM8AF6223	8	1	640	TSSOP20	1x8-bit / 2x16-bit	IWDG, WWDG, AWU	5x10-bit / 7x10-bit		16		1		1	1	3 to 5.5	5	230	-40 to +150	
STM8AF6226	8	2	384	LQFP32	1x8-bit / 3x16-bit		7x10-bit		25		1		1	1	3 to 5.5	5	430	-40 to +150	
STM8AF6226T	8	1	640	LQFP32, VFQFPN32	1x8-bit / 2x16-bit		5x10-bit		28		1		1	1	3 to 5.5	5	230	-40 to +150	
STM8AF6246	16	2	512	LQFP32, VFQFPN32	1x8-bit / 3x16-bit		7x10-bit		25		1		1	1	3 to 5.5	5	430	-40 to +150	
STM8AF6248	16	2	512	LQFP48	1x8-bit / 3x16-bit		10x10-bit		38		1		1	1	3 to 5.5	5	430	-40 to +150	
STM8AF6266	32	2	1024	LQFP32, VFQFPN32	1x8-bit / 3x16-bit		7x10-bit		25		1		1	1	3 to 5.5	5	430	-40 to +150	

STM8AF SERIES – MAINSTREAM AUTOMOTIVE MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (bytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface						Supply voltage (V)	Supply current (I _{CC})		Maximum operating temperature range (°C)
					8-/16-bit timers	Others				CAN	LIN-UART	USART (IrDA, ISO 7816, LIN 1.3, LIN 2.0)	SPI	I ² C	IRT _x		Lowest power mode (μA)	Run mode (per MHz) (μA)	
STM8AF6268	32	2	1024	LQFP48	1x8-bit / 3x16-bit	IWDG, WWDG, AWU	10x10-bit		38		1		1	1		3 to 5.5	5	430	-40 to +150
STM8AF6269	32	6	1024	LQFP64	1x8-bit / 3x16-bit		16x10-bit		54		1	1	1	1		3 to 5.5	5	500	-40 to +150
STM8AF6286	64	6	2048	LQFP32	1x8-bit / 3x16-bit		7x10-bit		25		1		1	1		3 to 5.5	5	500	-40 to +150
STM8AF6288	64	6	2048	LQFP48	1x8-bit / 3x16-bit		10x10-bit		38		1	1	1	1		3 to 5.5	5	500	-40 to +150
STM8AF6289	64	6	2048	LQFP64	1x8-bit / 3x16-bit		16x10-bit		54		1	1	1	1		3 to 5.5	5	500	-40 to +150
STM8AF628A	64	6	2048	LQFP80	1x8-bit / 3x16-bit		16x10-bit		70		1	1	1	1		3 to 5.5	5	500	-40 to +150
STM8AF62A6	128	6	2048	LQFP32	1x8-bit / 3x16-bit		7x10-bit		25		1		1	1		3 to 5.5	5	500	-40 to +150
STM8AF62A8	128	6	2048	LQFP 48	1x8-bit / 3x16-bit		10x10-bit		38		1	1	1	1		3 to 5.5	5	500	-40 to +150
STM8AF62A9	128	6	2048	LQFP64	1x8-bit / 3x16-bit		10x10-bit		54		1	1	1	1		3 to 5.5	5	500	-40 to +150
STM8AF62AA	128	6	2048	LQFP80	1x8-bit / 3x16-bit		16x10-bit		70		1	1	1	1		3 to 5.5	5	500	-40 to +150

STM8AL SERIES – ULTRA-LOW-POWER AUTOMOTIVE MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (bytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface						Supply voltage (V)	Supply current (I _{cc})		Maximum operating temperature range (°C)
					8-/16-bit timers	Others				CAN	LIN-UART	USART (IrDA, ISO 7816, LIN 1.3, LIN 2.0)	SPI	I ² C	IRTx		Lowest power mode (μA)	Run mode (per MHz) (μA)	
STM8AL30 Value low-power line - 16 MHz CPU																			
STM8AL3026	4	1.5	2048	LQFP32, VFQFPN32	1x8-bit / 2x16-bit	IWDG, AWU, beeper			30			1	1	1	1	1.65 to 3.6	0.35	150	-40 to +125
STM8AL3036	8	1.5	2048	LQFP32, VFQFPN32	1x8-bit / 2x16-bit				30			1	1	1	1	1.65 to 3.6	0.35	150	-40 to +125
STM8AL31 Standard low-power line - 16 MHz CPU																			
STM8AL3126	4	2	256	LQFP32, VFQFPN32	1x8-bit / 3x16-bit	IWDG, WWDG, AWU, RTC, beeper	22x12-bit	1x12-bit	30			1	1	1		1.8 to 3.6	0.4	195	-40 to +125
STM8AL3136	8	2	256	LQFP32, VFQFPN32	1x8-bit / 3x16-bit		22x12-bit	1x12-bit	30			1	1	1		1.8 to 3.6	0.4	195	-40 to +125
STM8AL3138	8	2	1024	LQFP48	1x8-bit / 3x16-bit		25x12-bit	1x12-bit	41			1	1	1		1.8 to 3.6	0.4	195	-40 to +125
STM8AL3146	16	2	1024	LQFP32, VFQFPN32	1x8-bit / 3x16-bit		22x12-bit	1x12-bit	30			1	1	1		1.8 to 3.6	0.4	195	-40 to +125
STM8AL3148	16	2	1024	LQFP48	1x8-bit / 3x16-bit		25x12-bit	1x12-bit	41			1	1	1		1.8 to 3.6	0.4	195	-40 to +125
STM8AL3166	32	2	1024	LQFP32, VFQFPN32	1x8-bit / 3x16-bit		22x12-bit	1x12-bit	30			1	1	1		1.8 to 3.6	0.4	195	-40 to +125
STM8AL3168	32	2	1024	LQFP48	1x8-bit / 3x16-bit		25x12-bit	1x12-bit	41			1	1	1		1.8 to 3.6	0.4	195	-40 to +125
STM8AL3L LCD (4x17) or (4x28) Standard low-power line - 16 MHz CPU																			
STM8AL3L46	16	2	1024	LQFP32, VFQFPN32	1x8-bit / 3x16-bit	IWDG, WWDG, AWU, RTC, beeper	21x12-bit	1x12-bit	29			1	1	1		1.8 to 3.6	0.4	195	-40 to +125
STM8AL3L48	16	2	1024	LQFP48	1x8-bit / 3x16-bit		25x12-bit	1x12-bit	41			1	1	1		1.8 to 3.6	0.4	195	-40 to +125
STM8AL3L66	32	2	1024	LQFP32, VFQFPN32	1x8-bit / 3x16-bit		21x12-bit	1x12-bit	29			1	1	1		1.8 to 3.6	0.4	195	-40 to +125
STM8AL3L68	32	2	1024	LQFP48	1x8-bit / 3x16-bit		25x12-bit	1x12-bit	41			1	1	1		1.8 to 3.6	0.4	195	-40 to +125

Notes:

- All STM8AL part numbers have DMA with 4 channels except STM8AL30

- For all STM8AL3Lx6 LCD is(4x17) and for all STM8AL3Lx8 LCD (4x28)

STM8L SERIES – ULTRA-LOW-POWER MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (bytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface				Supply current (I _{CC})		Maximum operating temperature range (°C)	Display controller (LCD)
					8-/16-bit timers	Others				SPI	I ² C	USART (IrDA, ISO 7816)	IRTx	Supply voltage (V)	Lowest power mode (µA)		
STM8L051/052 Value line - 16 MHz CPU																	
STM8L051F3	8	1	256	TSSOP20	1x8-bit / 2x16-bit	2 x WDG, IWWDG, RTC, beeper	10x12-bit		18	1	1	1	1.8 to 3.6	0.35	180	-40 to +85	
STM8L052C6	32	2	256	LQFP48	1x8-bit / 3x16-bit		25x12-bit		41	1	1	1	1.8 to 3.6	0.35	180	-40 to +85	4x28
STM8L052R8	64	4	256	LQFP64	1x8-bit / 4x16-bit		28x12-bit		54	2	1	3	1.8 to 3.6	0.4	200	-40 to +85	4x28/8x24
STM8L101 entry line - 16 MHz CPU																	
STM8L101F1	2	1.5		UFQFPN20	1x8-bit / 2x16-bit	IWWDG, AWU, beeper			18	1	1	1	1.65 to 3.6	0.3	150	-40 to +85	
STM8L101F2	4	1.5		TSSOP20, UFQFPN20	1x8-bit / 2x16-bit				18	1	1	1	1.65 to 3.6	0.3	150	-40 to +125	
STM8L101G2	4	1.5		UFQFPN28	1x8-bit / 2x16-bit				26	1	1	1	1.65 to 3.6	0.3	150	-40 to +125	
STM8L101F3	8	1.5	1	TSSOP20, UFQFPN20	1x8-bit / 2x16-bit				18	1	1	1	1.65 to 3.6	0.3	150	-40 to +125	
STM8L101G3	8	1.5	1	UFQFPN28	1x8-bit / 2x16-bit				26	1	1	1	1.65 to 3.6	0.3	150	-40 to +125	
STM8L101K3	8	1.5	1	LQFP32, UFQFPN32	1x8-bit / 2x16-bit				30	1	1	1	1.65 to 3.6	0.3	150	-40 to +125	
STM8L151/152 - 16 MHz CPU																	
STM8L151C2	4	1	256	LQFP48	1x8-bit / 2x16-bit	2 x WDG, AWU, RTC, beeper	28x12-bit		41	1	1	1	1.65 to 3.6	0.35	180	-40 to +125	
STM8L151F2	4	1	256	TSSOP20, UFQFPN20	1x8-bit / 2x16-bit		10x12-bit		18	1	1	1	1.65 to 3.6	0.35	180	-40 to +125	
STM8L151G2	4	1	256	UFQFPN28	1x8-bit / 2x16-bit		18x12-bit		26	1	1	1	1.65 to 3.6	0.35	180	-40 to +125	
STM8L151K2	4	1	256	UFQFPN32	1x8-bit / 2x16-bit		23x12-bit		30	1	1	1	1.65 to 3.6	0.35	180	-40 to +125	
STM8L151C3	8	1	256	LQFP 48	1x8-bit / 2x16-bit		28x12-bit		41	1	1	1	1.65 to 3.6	0.35	180	-40 to +125	

STM8L SERIES – ULTRA-LOW-POWER MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (bytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface				Supply current (I _{CC})		Maximum operating temperature range (°C)	Display controller (LCD)	
					8-/16-bit timers	Others				SPI	I ² C	USART (IrDA, ISO 7816)	IRTx	Supply voltage (V)	Lowest power mode (µA)			Run mode (per MHz) (µA)
STM8L151F3	8	1	256	TSSOP20, UFQFPN20	1x8-bit / 2x16-bit	2 x WDG, AWU, RTC, beeper	10x12-bit		18	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	
STM8L151G3	8	1	256	UFQFPN28	1x8-bit / 2x16-bit		18x12-bit		26	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	
STM8L151K3	8	1	256	UFQFPN32	1x8-bit / 2x16-bit		23x12-bit		30	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	
STM8L151C4	16	2	1024	LQFP48, UFQFPN48	1x8-bit / 3x16-bit		25x12-bit	1x12-bit	41	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	
STM8L151G4	16	2	1024	UFQFPN28, WLCSP28	1x8-bit / 3x16-bit		18x12-bit	1x12-bit	26	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	
STM8L151K4	16	2	1024	LQFP32, UFQFPN32	1x8-bit / 3x16-bit		22x12-bit	1x12-bit	30	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	
STM8L152C4	16	2	1024	LQFP48, UFQFPN48	1x8-bit / 3x16-bit		25x12-bit	1x12-bit	41	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	4x28
STM8L152K4	16	2	1024	LQFP32, UFQFPN32	1x8-bit / 3x16-bit		21x12-bit	1x12-bit	29	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	4x17
STM8L151C6	32	2	1024	LQFP48, UFQFPN48	1x8-bit / 3x16-bit		25x12-bit	1x12-bit	41	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	
STM8L151G6	32	2	1024	UFQFPN28, WLCSP28	1x8-bit / 3x16-bit		18x12-bit	1x12-bit	26	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	
STM8L151K6	32	2	1024	LQFP32, UFQFPN32	1x8-bit / 3x16-bit		22x12-bit	1x12-bit	30	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	
STM8L151R6	32	2	1024	LQFP64	1x8-bit / 4x16-bit		28x12-bit	2x12-bit	54	2	1	3		1.65 to 3.6	0.4	200	-40 to +125	
STM8L152C6	32	2	1024	LQFP48, UFQFPN48	1x8-bit / 3x16-bit		25x12-bit	1x12-bit	41	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	4x28
STM8L152K6	32	2	1024	LQFP32, UFQFPN32	1x8-bit / 3x16-bit		21x12-bit	1x12-bit	29	1	1	1		1.65 to 3.6	0.35	180	-40 to +125	4x17
STM8L152R6	32	2	1024	LQFP64	1x8-bit / 4x16-bit		28x12-bit	2x12-bit	54	2	1	3		1.65 to 3.6	0.4	200	-40 to +125	4x40/8x36
STM8L151C8	64	4	2048	LQFP48, UFQFPN48	1x8-bit / 4x16-bit		25x12-bit	2x12-bit	41	2	1	3		1.65 to 3.6	0.4	200	-40 to +125	

STM8L SERIES – ULTRA-LOW-POWER MCUS

Part number	Flash size (Kbytes)	Internal RAM size (Kbytes)	Data EEPROM (bytes)	Package	Timer functions		ADC	DAC	I/Os	Serial interface				Supply voltage (V)	Supply current (I _{cc})		Maximum operating temperature range (°C)	Display controller (LCD)
					8-/16-bit timers	Others				SPI	I ² C	USART (IrDA, ISO 7816)	IRTx		Lowest power mode (µA)	Run mode (per MHz) (µA)		
STM8L151M8	64	4	2048	LQFP80	1x8-bit / 4x16-bit	2 x WDG, AWU, RTC, beeper	28x12-bit	2x12-bit	68	2	1	3		1.65 to 3.6	0.4	200	-40 to +125	
STM8L151R8	64	4	2048	LQFP64	1x8-bit / 4x16-bit		28x12-bit	2x12-bit	54	2	1	3		1.65 to 3.6	0.4	200	-40 to +125	
STM8L152C8	64	4	2048	LQFP48, UFP48	1x8-bit / 4x16-bit		25x12-bit	2x12-bit	41	2	1	3		1.65 to 3.6	0.4	200	-40 to +125	4x32/8x28
STM8L152M8	64	4	2048	LQFP80	1x8-bit / 4x16-bit		28x12-bit	2x12-bit	68	2	1	3		1.65 to 3.6	0.4	200	-40 to +125	4x44/8x40
STM8L152R8	64	4	2048	LQFP64	1x8-bit / 4x16-bit		28x12-bit	2x12-bit	54	2	1	3		1.65 to 3.6	0.4	200	-40 to +125	4x40/8x36
STM8L162 - 16 MHz CPU																		
STM8L162M8	64	4	2048	LQFP80	1x8-bit / 4x16-bit	2 x WDG, AWU, RTC, beeper	28x12-bit	2x12-bit	68	2	1	3		1.65 to 3.6	0.4	200	-40 to +125	4x44/8x40
STM8L162R8	64	4	2048	LQFP64	1x8-bit / 4x16-bit		28x12-bit	2x12-bit	54	2	1	3		1.65 to 3.6	0.4	200	-40 to +125	4x44/8x40

Note:

1. Up to 2 Kbytes of EEPROM

Abbreviations and packages

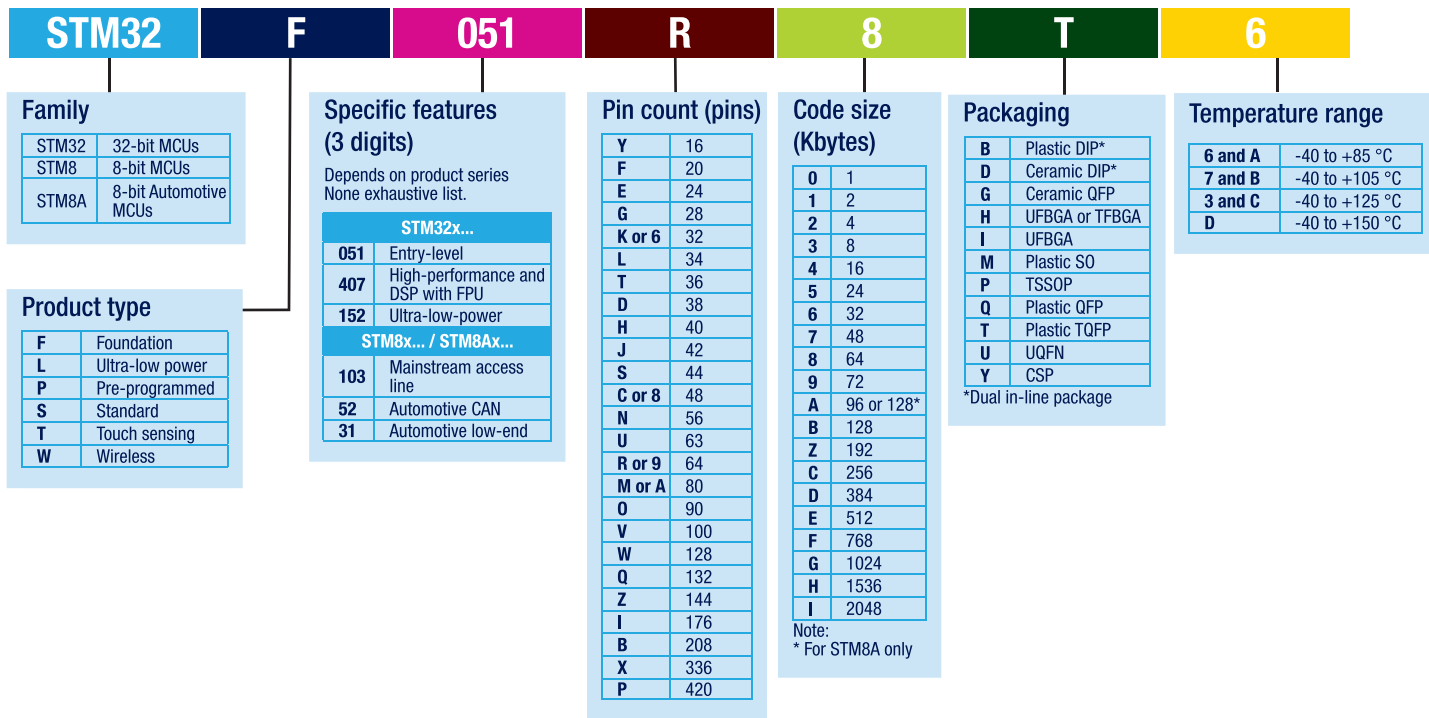
ABBREVIATIONS

ADC	: Analog-to-digital converter	LCD	: Liquid crystal display	SPI	: Serial peripheral interface
ART	: Auto-reload timer	LIN	: Local interconnect network	SSC	: Single-cycle switching support
ATAPI	: AT attachment packet interface	LVD	: Low voltage detection	SSP	: Synchronous serial port
AWU	: Auto wake-up from halt	MAC	: Multiply accumulator	TBU	: Time base unit
BLPD	: Byte level protocol decoder	MC	: Motor control	TLI	: Top level interrupt
BOD	: Brown-out detector	MFT	: Multifunction timer	UART	: Universal asynchronous receiver transmitter
CAN	: Controller area network	MMC	: MultiMediaCard	USART	: Universal sync/async receiver transmitter
CAPCOM	: Capture compare	NMI	: Non-maskable interrupt	USB	: Universal Serial Bus
CSS	: Clock security system	OSG	: Oscillator safeguard	WDG	: Watchdog timer
DALI	: Digital addressable lighting interface	PCA	: Programmable counter array	WWDG	: Window watchdog timer
DDC	: Data display channel	PDR	: Power-down reset		
DiSEqC	: Digital satellite equipment control	PHW	: Programmable halt wake-up		
DMA	: Direct memory access	PEC	: Peripheral event controller		
DSC	: Dual supply control	PLD	: Programmable logic device		
DTC	: Data transfer coprocessor	PLL	: Phase locked loop		
ETM	: Embedded trace macrocell	POR	: Power-on reset		
EMI	: External memory interface	PVD	: Programmable voltage detector		
HDLCL	: High-level data link control	PVR	: Programmable voltage regulator		
IAP	: In-application programming	PWM	: Pulse width modulation		
IC/OC	: Input capture/output compare	ROP	: Readout protection		
ICP	: programming	RTC	: Real-time clock timer		
IR	: Infrared	SC	: Smartcard		
IrDA	: Infrared data association	SCI	: Serial communication interface		
ISP	: In-situ programming	SCR	: Smartcard reader		
I ² C	: Inter-integrated circuit	SDIO	: Secure digital input output		
I ² S	: Inter-IC sound	SMI	: Serial memory interface		

PACKAGES

DIP	: Dual in-line package
LCC	: Leaded chip carrier
PDIP Shrink	: Shrink Plastic Dual In-line Package
PQFP	: Plastic quad flat package
SO	: Small outline
LQFP	: Low-profile quad flat package
PBGA	: Plastic ball grid array
DFN	: Dual flat no-lead
QFN	: Quad flat no-lead

MCU – Typical designations and part number suffixes



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