

Microcontroller		Power	CPU	Clock Speed (MHz)	SRAM KiB	Core		RTC SRAM KiB	Coupled Mem KiB	ROM KiB	Has SPI/ Can do SD Cards	Price	Notes
Family	GPIO Pins	Consumption											
ESP32-S2	43	~66 mW	XTensa LX7	240	320	16				128	<input checked="" type="checkbox"/>	~\$8-15	
ESP32-S3	45	~80-130 mW	XTensa LX7	240	512	16				384	<input checked="" type="checkbox"/>	~\$10-25	
ESP32-C2	14	~78 mW	RISC-V 1-core	120	272					576	<input checked="" type="checkbox"/>	~\$3-5	
ESP32-C3	22,16,15	~83-89 mW	RISC-V 1-core	160	400	8				384	<input checked="" type="checkbox"/>	~\$5-15	
ESP32-C6	30,22	~80-115 mW	RISC-V 2-core	160	512					320	<input checked="" type="checkbox"/>	~\$8-15	
STM32F0	32-64	~26-50mW	Cortex-M0	48	4-32					16-128	<input checked="" type="checkbox"/>	~\$10-30	
STM32F1	~37	~90mW	Cortex-M3	24-72	4-96					16-1024	<input checked="" type="checkbox"/>	~\$5-30	
STM32F2	51,82,140+	~70 mW	Cortex-M3	120	64-128					128-1024	<input checked="" type="checkbox"/>	~\$15-50+	Less common, often a part of eval boards
STM32F3	30-50	~80-130 mW	Cortex-M4F	72	16-40					64-256	<input checked="" type="checkbox"/>	~\$10-35	
STM32F4	50-100+	~110-140 mW	Cortex-M4F	84-180	192	4	64			512-2048	<input checked="" type="checkbox"/>	~\$15-50	
STM32F7	up to 168	~590 mW	Cortex-M7F	216	512	4	144			2048	<input checked="" type="checkbox"/>	~\$40-70	
STM32G0	50+	~21 mW	Cortex-M0+	64	8-128					16-512	<input checked="" type="checkbox"/>	~\$10-25	
STM32G4	51-107	~96 mW	Cortex-M4F	170	32-128					128-512	<input checked="" type="checkbox"/>	~\$10-30	
		~726 mW											
STM32H7	100+	@400MHz		480-600	1024	4	192			2048	<input checked="" type="checkbox"/>	~\$40-70	
STM32L0	~64	~8 mW	Cortex-M0+	32	8	20 bytes				32-64	<input checked="" type="checkbox"/>	~\$15-30	Low power
STM32L1	30-100+	~20 mW	Cortex-M3	32	10-80	80 bytes				32-512	<input checked="" type="checkbox"/>	~\$15-30	Low power
STM32L4	26-52	~21 mW	Cortex-M4F	80	64					256	<input checked="" type="checkbox"/>	~\$20-50	Low power
STM32L4+	51-83+	~14 mW	Cortex-M4F	120	640					2048	<input checked="" type="checkbox"/>	~\$45-60	Low power
STM32L5	~50	~5-6 mW	Cortex-M33	110	256					256-512	<input checked="" type="checkbox"/>	~\$25-60	Low power
			Cortex-M4F										
STM32WB	up to 72	~33-50 mW	and M0+	64	96-256					512-1024	<input checked="" type="checkbox"/>	~\$20-40	Wireless
STM32U0	up to 68	~1.5 mW	Cortex-M0+	56	12-40					256	<input checked="" type="checkbox"/>	~\$11-30	Low power
STM32U5	up to 137	~9.12 mW	Cortex-M33	160	3072					4096	<input checked="" type="checkbox"/>	~\$25-90	Low power

STM32H7 vs STM32F7/F4

Feature	STM32F4	STM32F7	STM32H7
Core	Cortex-M4	Cortex-M7	Cortex-M7 / Dual-core
Max Frequency	180 MHz	216 MHz	550 MHz
RAM	192 KB	320 KB	Up to 1 MB
Flash Memory	1 MB	1 MB	Up to 2 MB
Graphics	No	Basic	Advanced
Security	Basic	Improved	Full TrustZone