

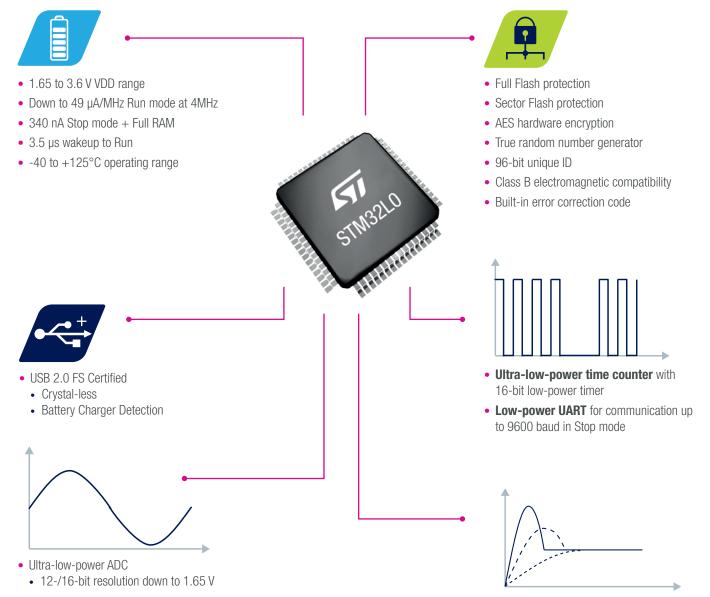
STM32LO Series Ultra-low-power MCUs Tailored to your needs



STM32[™] Ultra-low-power

STM32 Ultra-low-power DNA ARM® Cortex®-M0+

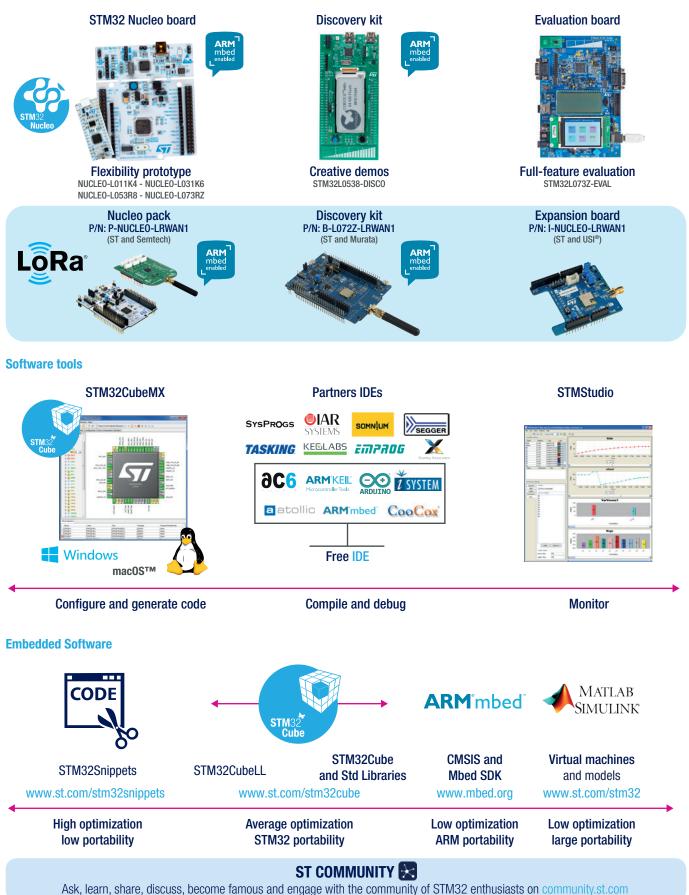
The STM32L0 is the best match for energy harvesting, coin-cell battery or energy sensitive applications. Combining a genuine ultra-low-power architecture with low-current analog peripherals and four low-power modes, the STM32L0 is ideal for applications such as mice, keyboards, gas/water meters, building automation, alarm detectors and health care or fitness applications. For applications that require a 15- to 20-year life duration or need to run in extermly high temperature conditions, the STM32L0 is the best choice thanks to ST's CMOS process technology.



Adaptive inrush current

STM32L0 ECOSYSTEM

Hardware tools



UP TO THREE LINES FOR MORE FLEXIBILITY

ARM© Cortex©-M0+ (32 MHz with MPU)	 Low voltage 1.65 to 3.6V - 40 to 125°C oper. temp. 14 to 100 pins Dynamic voltage scaling 5 clock sources Advanced RTC w/ calibration 	STM32 LO Product	Flash (KB)	RAM (KB)	EEPROM (KB)	12-bit ADC 1.14 MSPS	LP ¹ UART	LP ¹ 16-bit timer	12-bit DAC	Touch sense	True RNG	USB 2.0 FS Crystal- less	Segment LCD Driver
	 Multiple USART, SPI, I²C Multiple 16-bit timers 5V tolerant I/Os 2 watchdogs 	STM32L0x1 Access	Up to 192	Up to 20	Up to 6	•	•	•					
	 Programmable voltage detector (PVD) Reset circuitry POR/PDR Brown-out Reset 	STM32L0x2 USB	Up to 192	Up to 20	Up to 6	•	•	•	•	•	•	•	
	 DMA Comparators Temperature sensor AES-128 	STM32L0x3 USB & LCD	Up to 192	Up to 20	Up to 6	•	•	•	•	•	•	•	Up to 4x52 or 8x48

VARIOUS PACKAGES OPTIONS TO FIT ANY APPLICATION CHALLENGE



WLCSP WLCSP25 (~2x2 mm) WLCSP36 (~2x3 mm) WLCSP49 (~3x3 mm)

Flash memory size (bytes)

QFN QFN28 (4x4 mm) QFN32 (5x5 mm)

WIDE PORTFOLIO DESIGNED TO SAVE YOUR ENERGY



BGA BGA64 (5x5 mm) BGA100 (7x7 mm)



TSSOP TSSOP14 (4.4x4.1 mm) TSSOP20 (4.4x6.6 mm)



LQFP32 (7x7 mm) LQFP48 (7X7 mm) LQFP64 (10X10 mm) LQFP100 (14X14 mm)

ST MCU FINDER

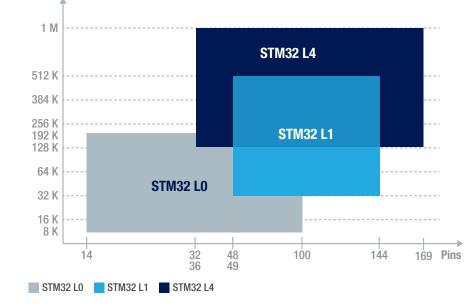
Free Android application to find the right STM32 MCU





www.st.com/stmcufinder





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