STM32L4 MCU series

STM32 **L4**

Excellence in ultra-low-power with performance



Key advantages of STM32L4 series 2

- ULP leader and performance booster ST has built a new architecture to reach best-inclass, ultra-low-power figures thanks to its high flexibility. Moreover, the performance of the STM32L4 series adds a new dimension to the ultra-low-power world. It delivers 100 DMIPS based on its ARM Cortex-M4 core with FPU and ST ART Accelerator™ at 80 MHz.
- Innovation To address a large market range, its architecture implements several innovations and embeds smart peripherals.
- 3
- Integration and safety Up to 1 Mbyte of Flash memory and 128 Kbytes of SRAM with safety and security features, smart and numerous peripherals, advanced and low-power analog circuits in packages as small as 3.13 x 3.14 mm.



Great Investment This new STM32 member benefits from the pin-to-pin compatibility of the STM32 family and the STM32 development ecosystem.

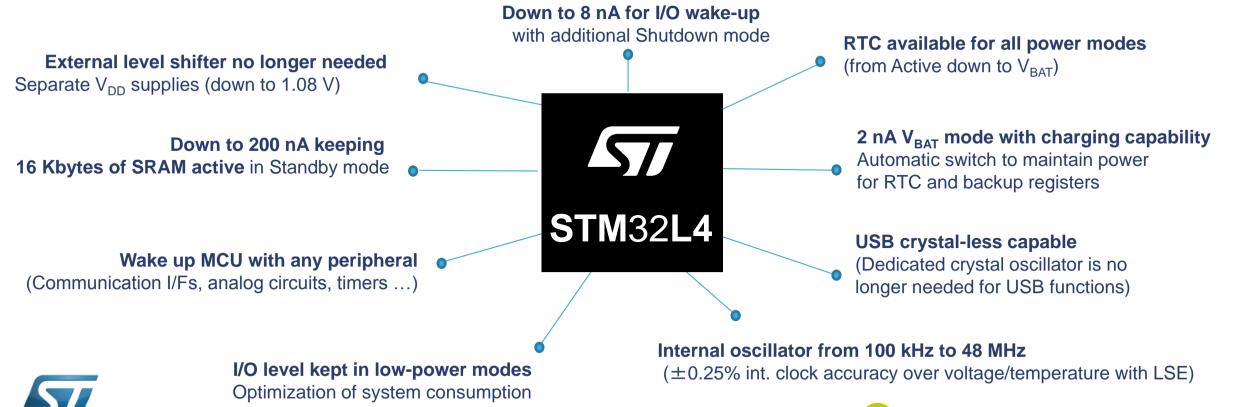




Ultra-low-power and flexibility FlexPowerControl

3

STM32L4 is based on a new platform optimized to reduce power consumption and increase flexibility



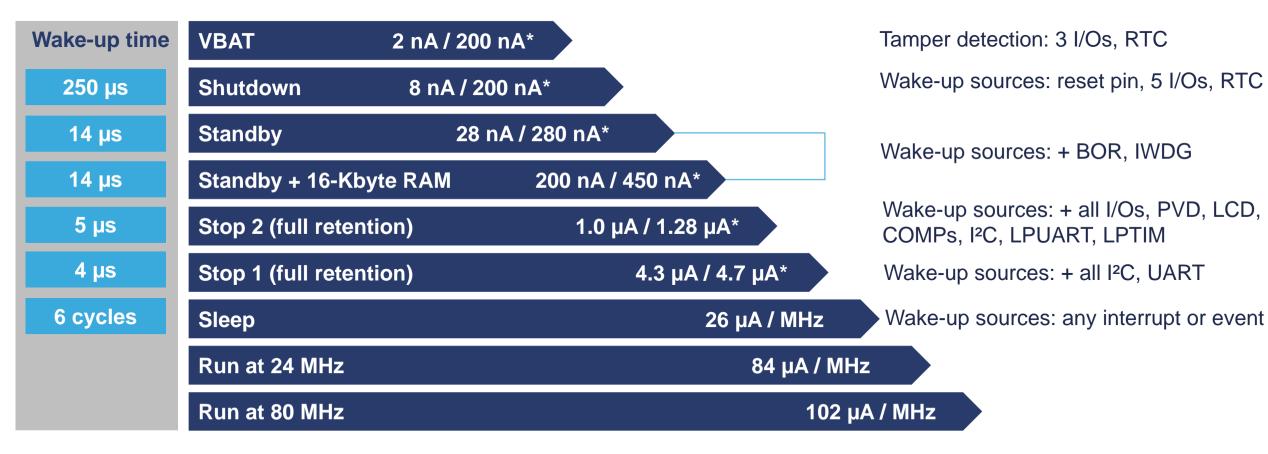
ULP leader and performance booster



Ultra-low-power modes



Best power consumption numbers with full flexibility

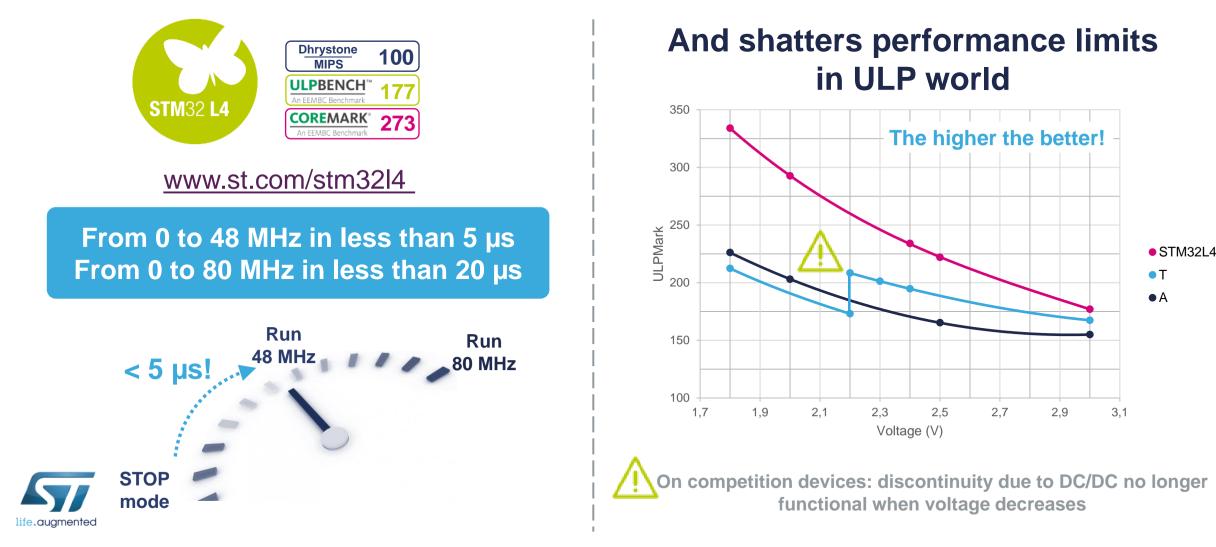






STM32L4 5

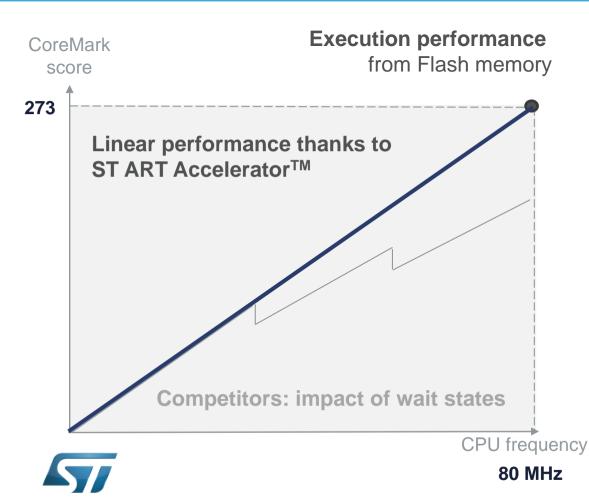
This ULPBench® winner takes off like a rocket





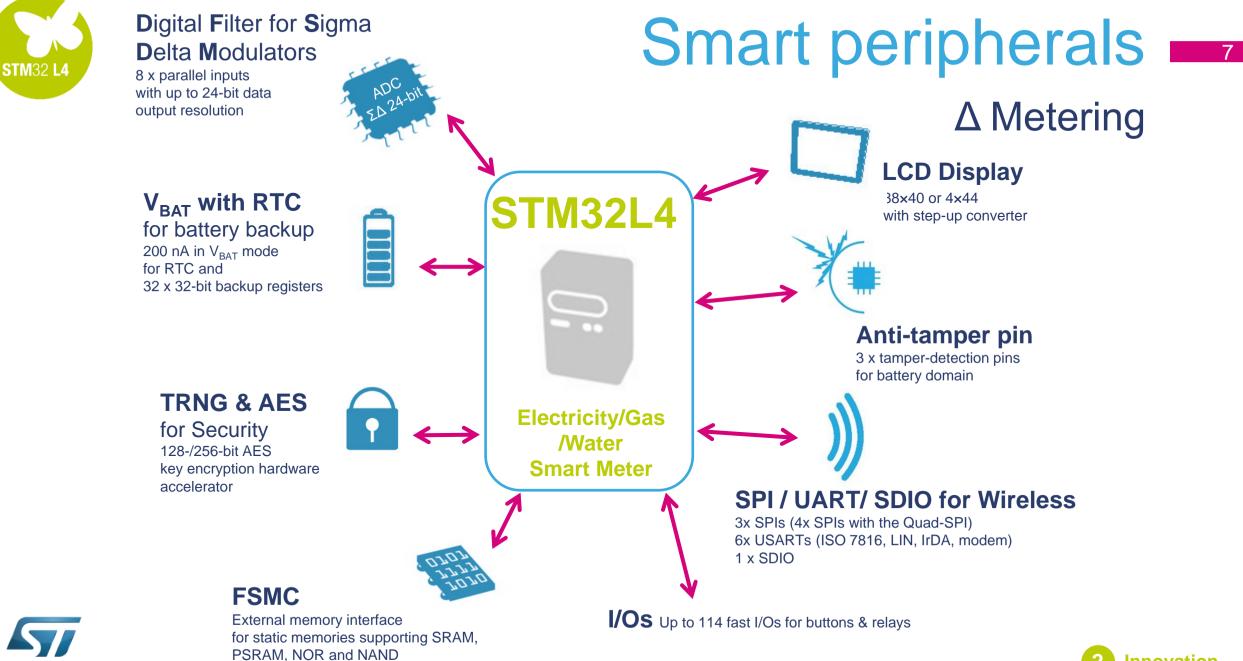
Providing more performance

Do not compromise on performance with STM32L4



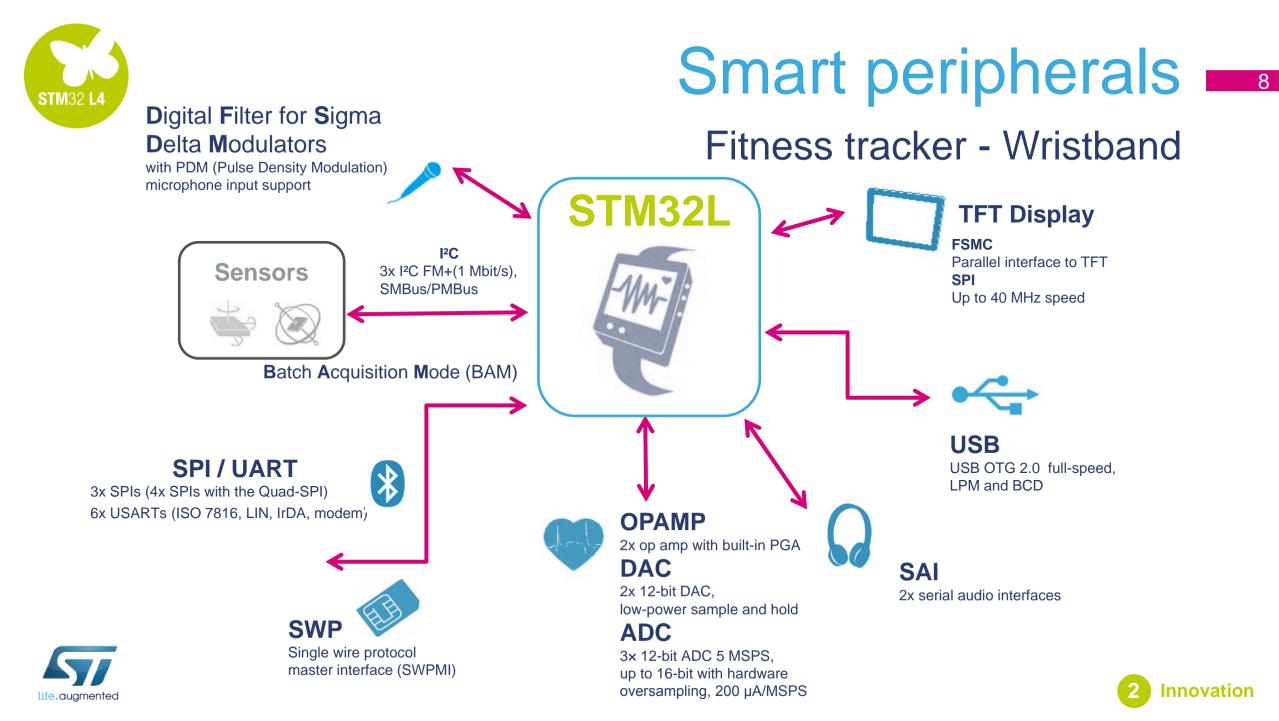
- Up to 80 MHz/ 100 DMIPS with ART Accelerator™
- Up to 273 CoreMark result
- ARM Cortex-M4 with FPU and DSP instructions
- 2x DMA (14 channels)
- SPI up to 40 Mbit/s, USART 10 Mbit/s

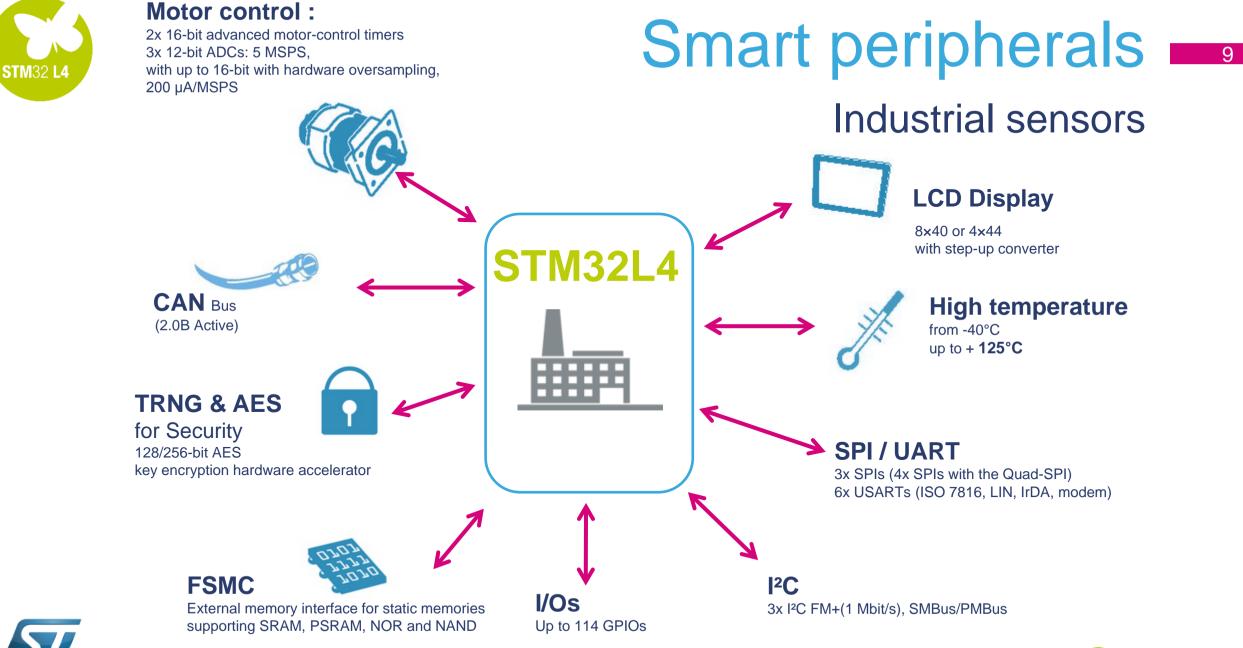




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Innovation





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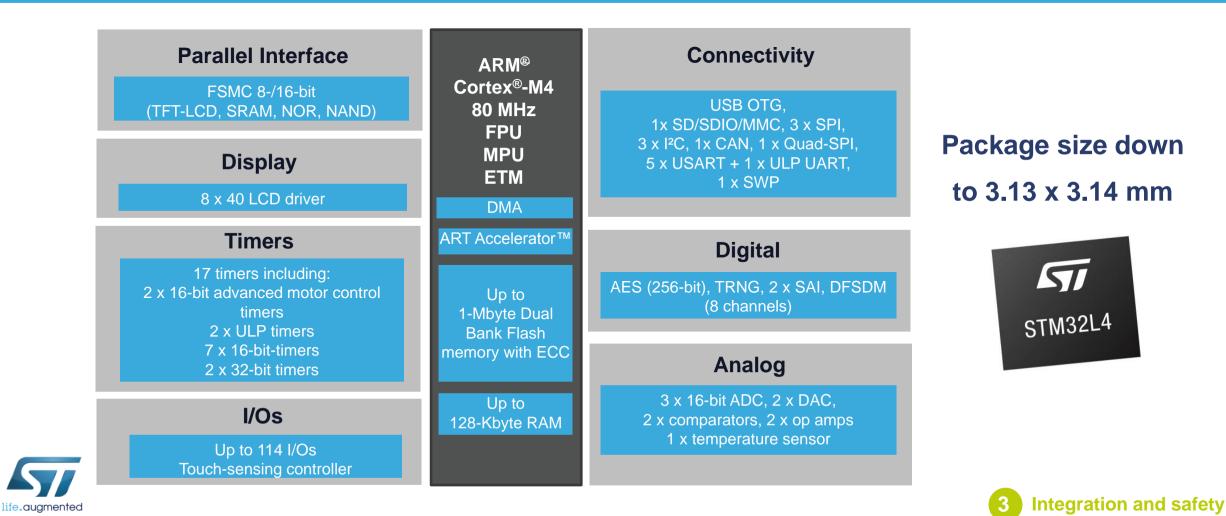




High integration 10

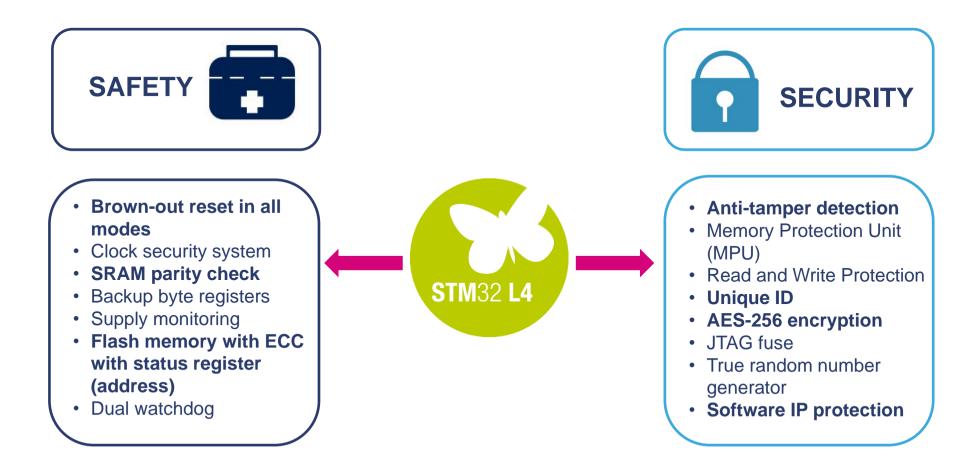


High integration with high memory size in small packages



Safety and security -

Integrated safety and security features

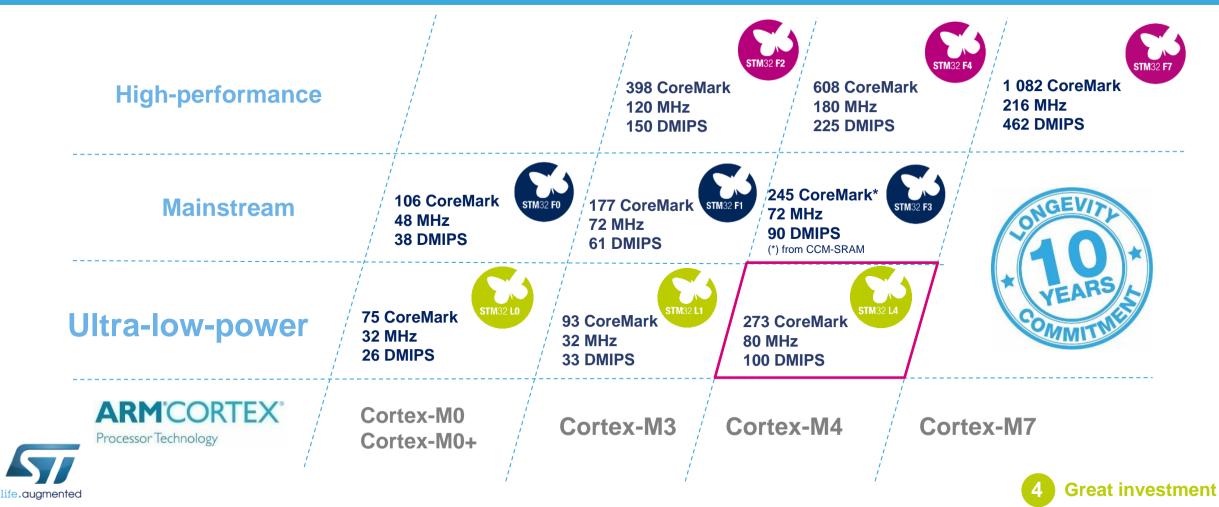






STM32L4: continuity in STM32 portfolio

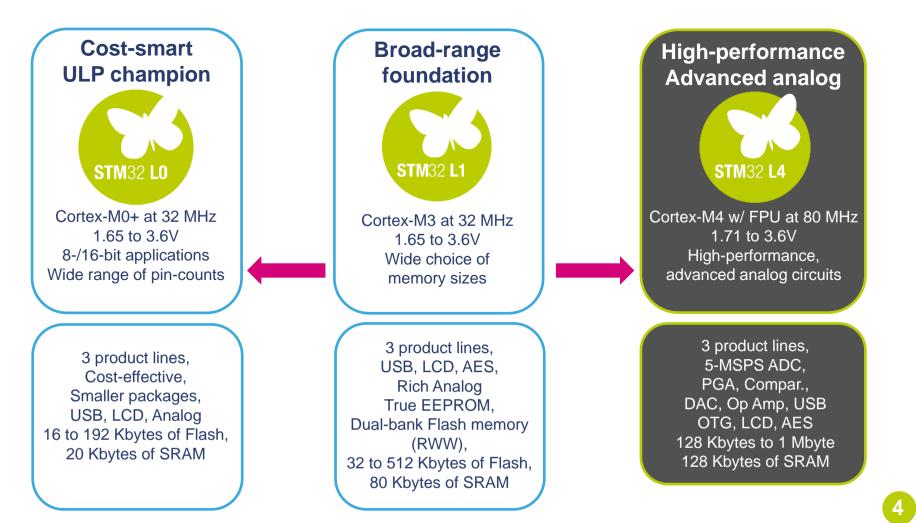
9 product series / more than 32 product lines STM32L4 benefits from pin-to-pin compatibility across the family



STM32L ULP porfolio

Great investment

STM32L4 completes the ultra-low-power family





STM32L4 portfolio

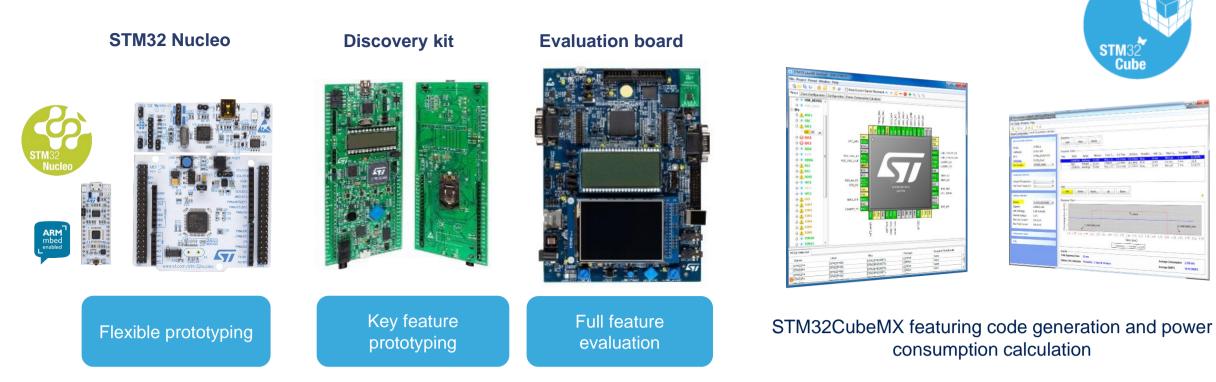




STM32L4 ecosystem

HARDWARE TOOLS

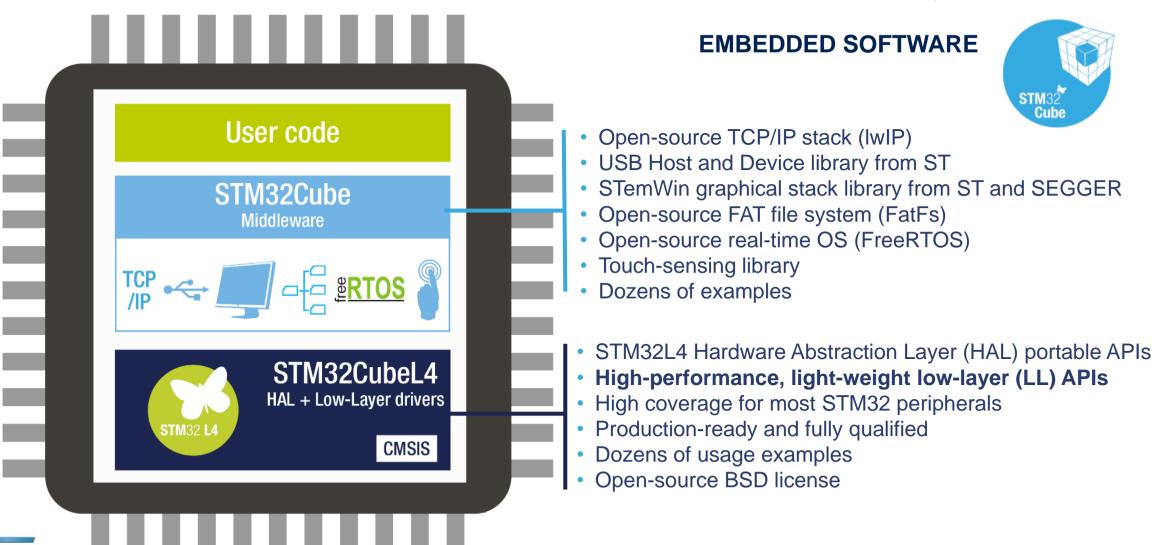
SOFTWARE TOOLS







STM32L4 ecosystem



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STM32 apps & social media

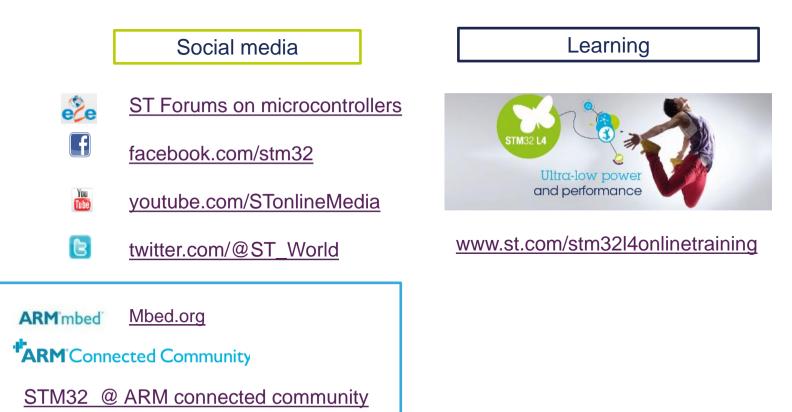
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ST MCU Finder mobile application



www.st.com/stmcufinder











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