



STM32WBxM Wireless Modules Bluetooth® LE 5.2, Zigbee 3.0 and Thread





STM32 MCU portfolio

	MPU							STM32 MP1 4158 CoreMark 650 MHz Cortex –A7 209 MHz Cortex –M4
\star	High Perf MCUs			STM32 F2 Up to 398 CoreMark 120 MHz Cortex-M3	STM32 F4 Up to 608 CoreMark 180 MHz Cortex-M4	STM32 F7 1082 CoreMark 216 MHz Cortex-M7	STM32H7 Up to 3224 CoreMark Up to 550 MHz Cortex -M7 240 MHz Cortex -M4	
>>	Mainstream MCUs	STM32F0 106 CoreMark 48 MHz Cortex-M0	STM32 G0 142 CoreMark 64 MHz Cortex-M0+	STM32F1 177 CoreMark 72 MHz Cortex-M3	STM32F3 245 CoreMark 72 MHz Cortex-M4 Optimized for mixed	STM32 G4 550 CoreMark 170 MHz Cortex-M4 -signal Applications		
	ra-low Power MCUs	STM32L0 75 CoreMark 32 MHz Cortex-M0+	STM32L1 93 CoreMark 32 MHz Cortex-M3	STM32L4 273 CoreMark 80 MHz Cortex-M4	STM32L4+ 409 CoreMark 120 MHz Cortex-M4	STM32 L5 443 CoreMark 110 MHz Cortex-M33	STM32 U5 651 CoreMark 160 MHz Cortex-M33	
3	Wireless MCUs			STM32WL 162 CoreMark 48 MHz Cortex-M4 48 MHz Cortex-M0+	STM32WB 216 CoreMark 64 MHz Cortex-M4 32 MHz Cortex-M0+		LOT!	GEVITA O *
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Make the choice of STM32WB series the 7 keys points to make the difference





STM32WB - a large offer

Bluetooth LE 5.2, OpenThread, Zigbee 3.0 and proprietary protocol capable

life.augmented



Available as a module to reduce your time to market





STM32WB5M - module

Easy to integrate - Light certification for customer

Key advantages

- WLCSP100 package integrated
- Maximum of features exposed
- Low-cost PCB for the mother board





STM32WB5M multi-protocol module

Small form factor

7.3x11 mm

Full ref design up to antenna, crystals



Reduce the cost

Down to 2 PCB layers

Everything inside (single cap outside)

Free of charge radio stack

Certified FCC, CE, NCC, JRF, KC, SRRC, ISED, GOST

Multi-protocols



+ Concurrent modes & Proprietary 2.4GHz

Strong feature set

Dual-core based 1MB Flash/256KB RAM LCD, USB FS, ADC, COMP Security OTA (application, radio)

Discovery kit





RPN : STM32WB5MMGH6TR

STM32 ecosystem





Prototyping made as easy as 1,2,3



STM32WB5MM-DK





Bottom view (ARDUINO connectors)



Software development tools

A complete flow, from configuration up to monitoring







More to come after mass market launch



STM32CubeMX, GUI Builders Configure & Generate Code ST and Partner IDEs Compile and Debug

STM32CubeProg/Monitor Monitor, Program & Utilities





Releasing your creativity

<u>/STM32</u>

@ST_World



community.st.com





wiki.st.com/stm32mcu

github.com/STMicroelectronics



STM32WB online training

STM32WB blog article



MOOC – STM32WB workshop



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