

STM32WLxM WIRELESS LINE



LoRaWAN[®]-certified module
enabling (G)FSK, (G)MSK, BPSK



Enable faster development for power-efficient, long-range wireless devices

The STM32WLxM line is a multi-protocol LPWAN dual core 32-bit Arm[®]Cortex[®]-M4/M0+ LoRa[®], (G)FSK, (G)MSK, BPSK, up to 256KB Flash, 64KB RAM.

It can significantly speed up development and reduce associated costs. It is LoRaWAN certified^(TM), Sigfox verified^(TM) and compliant with FCC, CE, IC regulations.

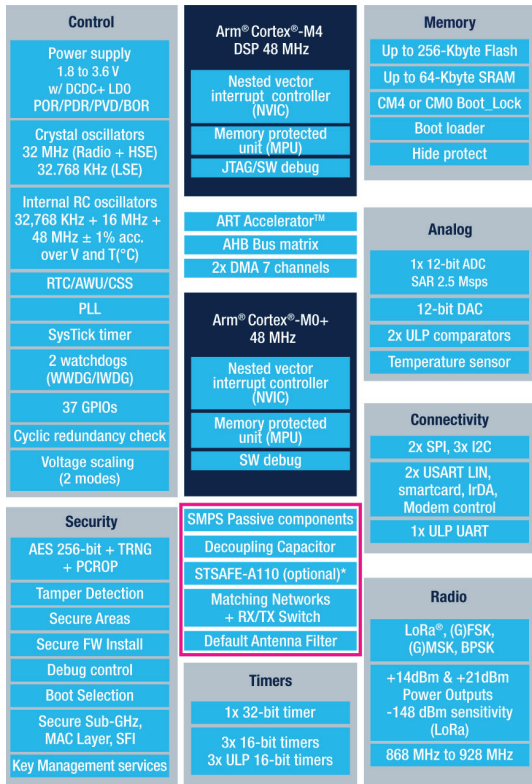
The STM32WL5MOC is the smaller module of the industry integrating LoRa modulation and capability to switch on the fly from a low-power PA to a high-power PA for global roaming purpose.

Full integration in the STM32CubeMX ecosystem to speed up development with easy configuration and setup of the application.

KEY FEATURES AND BENEFITS

- High integration, small footprint:
 - Embedded dual-core STM32WL55JC MCU
 - RF already fine-tuned
 - Product fully integrated in CubeMX
- Ultra-low-power consumption:
 - Low power PA optimized for low power radio performance
 - Module leveraging from STM32WL ultra-low-power architecture
- Long range radio performance:
 - High power PA optimized for long range
 - Already certified (LoRaWAN[®] and Sigfox protocols)
 - Ultra flexible platform with multiple modulation support
 - Sensitivity down to -148 dBm for LoRa[®]

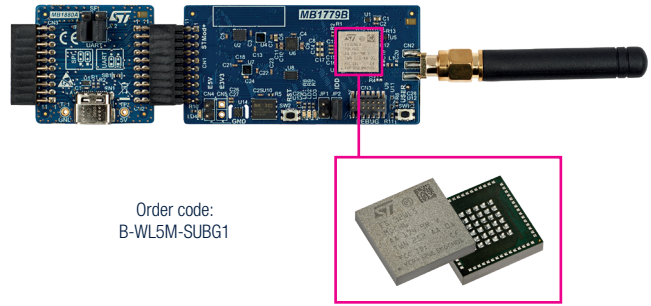
STM32WLxM BLOCK DIAGRAM



*Only for STM32WL5MOCHE6S
 Legend: Integrated component module

HARDWARE TOOLS

The STM32WL Connectivity Expansion Board lets you quickly start developing with the STM32WL5MOC module.

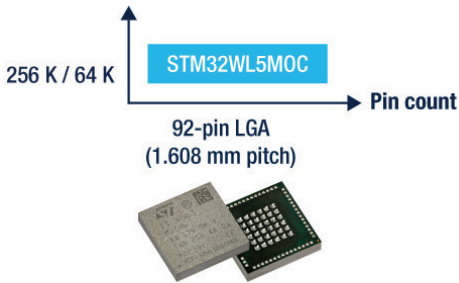


MULTI-PROTOCOL



STM32WLxM PORTFOLIO

Flash memory size / RAM size (bytes)



CERTIFIED LOGOS



START DEVELOPING NOW!

STM32Cube ecosystem

More than **1 million developers** have chosen STM32Cube, making it the reference in the industry.

STM32CubeWL firmware package

STM32WL Online Training

Discover our wiki site on STM32 connectivity solutions



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