

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™, Sigfox verified™ 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

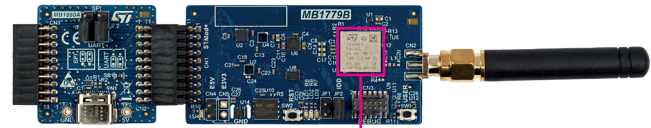


*Only for STM32WL5MOCxHS

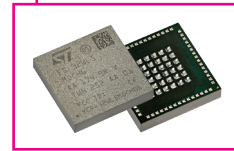
Legend: Integrated component module

HARDWARE TOOLS

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



Order code:
B-WL5M-SUBG1



MULTI-PROTOCOL

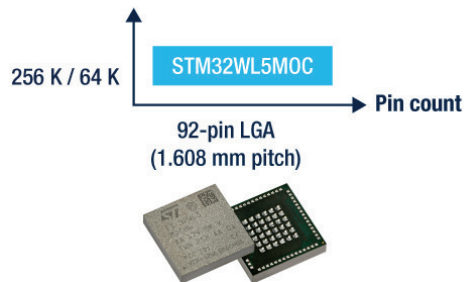


 Available from STM32CubeWL

 Available from stackforce

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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Order code: FL2401STM32WLxM

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