

STM32WL5M WIRELESS LINE



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



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

The STM32WL5M 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[®]

