STM32WBxM Wireless Modules
Bluetooth® LE 5.2, Zigbee 3.0 and Thread
Make the choice of STM32WB series the 7 keys points to make the difference

- Open 2.4 GHz radio Multi-protocol
- 1MB Flash
- 3.6 V 129-pin
- 1.7 V 48-pin
- 256KB Flash
- A large offer
- Dual-core / Full control Ultra-low-power
- IoT Protection ready
- Massive integration Cost saving
- Advanced RF tool, Energy control with C code generation
- No matter what!
**STM32WB - a large offer**

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

<table>
<thead>
<tr>
<th>Flash memory size / RAM size (bytes)</th>
<th>STM32WB55CG</th>
<th>STM32WB55RG</th>
<th>STM32WB55MG</th>
<th>STM32WB55VG</th>
</tr>
</thead>
<tbody>
<tr>
<td>1M / 256K</td>
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<tr>
<td>1M / 128K</td>
<td>STM32WB50CG</td>
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<tr>
<td>640K / 256K</td>
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<td>STM32WB55YY</td>
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<tr>
<td>512K / 256K</td>
<td>STM32WB55CE</td>
<td>STM32WB55RE</td>
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<tr>
<td>512K / 96K</td>
<td>STM32WB35CE</td>
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<tr>
<td>320K / 48K</td>
<td>STM32WB15CC</td>
<td>STM32WB10CC</td>
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<tr>
<td>256K / 128K</td>
<td>STM32WB55CC</td>
<td>STM32WB55RC</td>
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<tr>
<td>256K / 96K</td>
<td>STM32WB35CC</td>
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</tbody>
</table>

**Legend:**
- Standard line
- Value line
- Module line
- New

- from 1.7 to 3.6 V
- from -40°C to +105°C

STM32 life augmented

10 years longevity commitment
Available as a module to reduce your time to market
Key advantages

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

Easy to integrate - Light certification for customer
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**
- Bluetooth®
- Zigbee
- OpenThread
- + 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**
- STM32 ecosystem

RPN : STM32WB5MMGH6TR

STM32 CubeMX
STM32 CubeIDE
STM32 CubeWB
STM32 CubeMonitor
STM32 CubeProgrammer
Prototyping made as easy as 1,2,3

STM32WB5MM-DK*

Hardware Discovery Kit

*Available in Q1/2021

STM32CubeMX/STM32CubeWB/
STM32CubeProg & STM32CubeMonRF
Code generation
Power calculation

STM32
STM32WB5MM-DK

Top view

Bottom view
(ARDUINO connectors)
Software development tools

A complete flow, from configuration up to monitoring

STM32CubeMX, GUI Builders
Configure & Generate Code

ST and Partner IDEs
Compile and Debug

STM32CubeProg/Monitor
Monitor, Program & Utilities

More to come after mass market launch
Releasing your creativity

/STM32
@ST_World
community.st.com
www.st.com/STM32WB
wiki.st.com/stm32mcu
github.com/STMicroelectronics
STM32WB online training
STM32WB blog article
MOOC – STM32WB workshop
Thank you