



# STM32W-SK STM32W-EXT

## Starter and extension kits for STM32W108xx microcontrollers

Data brief

### Features

- 32-bit ARM® Cortex™-M3 microprocessor
- 2.4 GHz, IEEE 802.15.4-compliant transceiver
- Suitable for different types of wireless network scenarios such as:
  - Remote control and target networks (based on the ZigBee RF4CE protocol stack) used for driving consumer devices such as TVs and set-top boxes, and HID devices such as a mouse or keyboard.
  - Point to point networks (based on a Simplified MAC library) used to address a basic IEEE 802.15.4 communication. This configuration enables customers to develop any protocol stack of their choice.

### Description

The STM32W-SK and STM32W-EXT starter and extension kits are easy to use tools for the STM32W108xx microcontrollers. This family of microcontrollers integrates a 32-bit ARM® Cortex™-M3 microprocessor and a 2.4 GHz, IEEE 802.15.4-compliant transceiver. The kits demonstrate how effectively the STM32W108xx can be used in real IEEE 802.15.4 applications.

The STM32W108xx kits provide demonstration applications and documentation which serve as a reference for creating your own applications and re-programming the STM32W108xx microcontroller. You can run the STM32W108xx kits in several ways (remote control/target, HID devices such as a mouse or keyboard and point-to-point applications), using the dedicated software libraries (ZigBee RF4CE, and Simplified MAC), as well as a third-party IDE and C compiler (IAR).

Moreover, the STM32W108xx kits provide a set of APIs which allow you to use the kit platform capabilities such as LEDs and serial communication channels (virtual COM through USB).



Starter kit (STM32W-SK)



Extension kit (STM32W-EXT)

1. The Starter kit picture is not contractual.

# 1 Ordering information

**Table 1. List of kit order codes**

| Kit name                                      | Order code                     |
|-----------------------------------------------|--------------------------------|
| STM32W108 starter kit (128-Kbyte Flash MCU)   | STM32W108B-SK <sup>(1)</sup>   |
| STM32W108 starter kit (256-Kbyte Flash MCU)   | STM32W108C-SK                  |
| STM32W108 extension kit (128-Kbyte Flash MCU) | STM32W108B-KEXT <sup>(2)</sup> |
| STM32W108 extension kit (256-Kbyte Flash MCU) | STM32W108C-KEXT                |

1. STM32W108B-SK is replaced by STM32W108C-SK.
2. STM32W108B-KEXT is replaced by STM32W108C-KEXT.

## Revision history

**Table 2. Document revision history**

| Date        | Revision | Changes                                                                                                         |
|-------------|----------|-----------------------------------------------------------------------------------------------------------------|
| 16-Sep-2010 | 1        | Initial release.                                                                                                |
| 20-Jul-2012 | 2        | Updated <a href="#">Features</a> and <a href="#">Ordering information</a> .<br>Added pictures on cover page.    |
| 26-Jul-2012 | 3        | Update STM32W-SK picture on cover page.<br>Removed note 1 in <a href="#">Table 1: List of kit order codes</a> . |
| 20-Nov-2012 | 4        | Added note 1 to <a href="#">Table 1: List of kit order codes</a> .                                              |

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