



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:
 - Mesh networks (based on the ZigBee PRO protocol stack) typically used in home automation and smart energy applications.
 - Remote control and target networks (based on the ZigBee RF4CE protocol stack) used for driving consumer devices such as TVs, set-top boxes, etc.
 - 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 (building mesh networks, remote control/target and point-to-point applications), using the dedicated software libraries (ZigBee PRO, ZigBee RF4CE, and Simplified MAC), as well as a third-party IDE and C compiler (IAR). Moreover, the STM32W108xx kits provide a set of HAL APIs which allow you to use the kit platform capabilities such as LEDs and serial communication channels (virtual COM through USB).

Ordering information

Kit name	Order code
STM32W108 starter kit	STM32W108B-SK
STM32W108 extension kit	STM32W108B-EXT

Revision history

Table 1. Document revision history

Date	Revision	Changes
16-Sep-2010	1	Initial release.

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