

SILICA Branca Board

Development Kit for the WiFi Module SPWF01SX.11



The SILICA Branca Board is composed of the STMicroelectronics' WiFi module SPWF01SX.11, a USB interface to enable interaction with the module, a JTAG connector to program/emulate, and a temperature sensor to work as simple sensor node application.

All the pins of the module are available through a simple through-hole connector. Schematics and gerber files will be available online freely after registration.

Module Summary

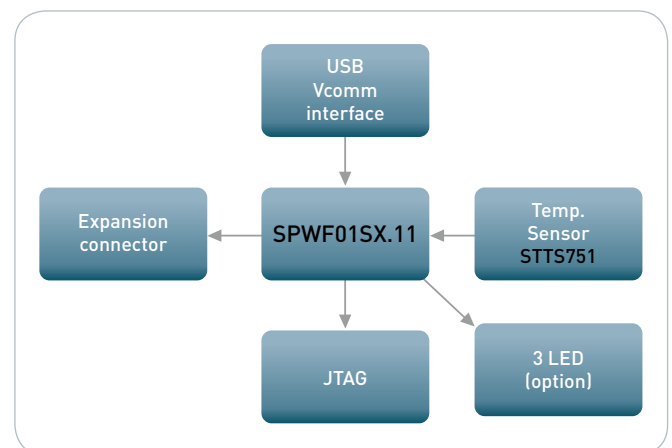
- **Radio:** 2.4 GHz IEEE 802.11b/g/n
- **Microcontroller:** STM32 ARM Cortex-M3, Memory 64 KB RAM, 1.5 MB Flash
- **Size (mm):** 26.92 x 15.24 x 2.35 , side pads SMD
- **Interfaces:** Serial (UART, I²C, SPI) , 16 GPIOs
- **JTAG**
- **XTAL:** Integrated 32 kHz to support low power modes
- **Temperature:** Industrial temperature range
- **Antenna Options:** Integrated antenna/U.fl. connector
- **Certifications:** FCC, IC and CE certified, ROHS compliant
- **Software:** Multiple stacks available: Full stack, AT, SDK

Firmware & Software

- No specific firmware needed
- The module has AT+ commands interface: a simple terminal can be used to interact
- In the future, STMicroelectronics will release an update to enable to run user applications directly by the embedded MCU on the module
- ArchiTech will release also an adapter board for STMicroelectronics Discovery, providing a complete embedded development solution (sold separately)



Branca Blockdiagram



For more information on the Branca Board:
www.silica.com/branca

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