# Wi-Fi expansion for the SensorTile Wireless Industrial Node (STWIN) kit
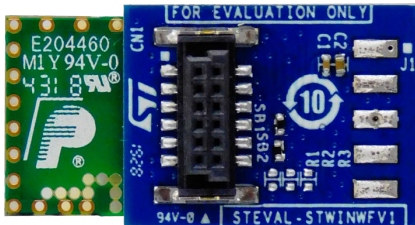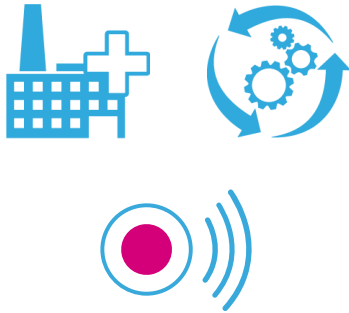


## Features

- Wi-Fi adapter for STWIN (STEVAL-STWINKT1)
- Plugs into STWIN core system board through dedicated 12-pin connector
- Single 3.3 V power supply input
- ISM43362-M3G-L44-E Wi-Fi module:
  - 802.11 b/g/n Compatible based on Broadcom MAC/Baseband/Radio device
  - Fully contained TCP/IP stack
  - Host interface: SPI up to 25 MHz
  - Network features ICMP ( Ping), ARP, DHCP,TCP, UDP
  - Low power operation (3.3 V supply) with built-in low power modes
  - Secure Wi-Fi authentication WEP-128, WPA-PSK (TKIP), WPA2-PSK
  - CE certified
  - FCC certified
  - IC certified
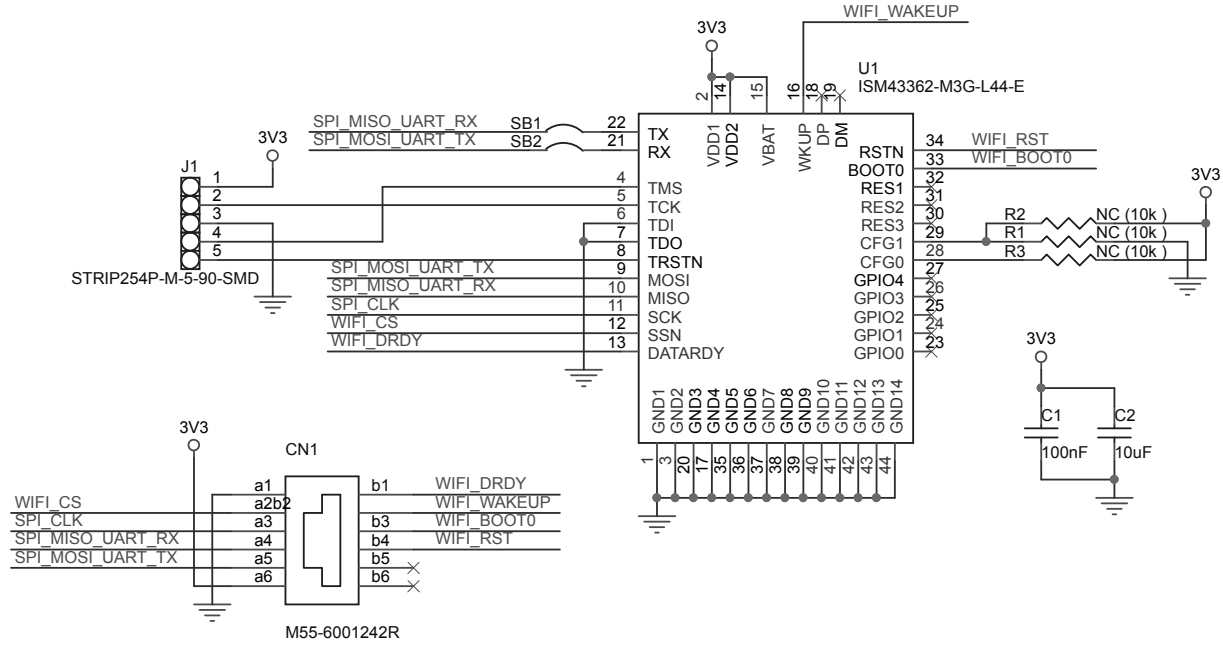- RoHS and China RoHS compliant
- WEEE compliant

## Description

The STEVAL-STWINWFV1 expansion board adds 2.4 GHz Wi-Fi connectivity to the SensorTile Wireless Industrial Node (STWIN) kit (STEVAL-STWINKT1).

Application examples that take advantage of this expansion board can be found in STSW-STWINKT01 firmware package as well as in the FP-IND-PREDMNT1 Predictive Maintenance Function Pack.

| Product summary | |
|---|---|
| Wi-Fi expansion board for the STWIN development kit | STEVAL-STWINWFV1 |
| STWIN SensorTile Wireless Industrial Node development kit | STEVAL-STWINKT1 |
| Firmware for STEVAL-STWINKT1 evaluation kit | STSW-STWINKT01 |

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For further information contact your local STMicroelectronics sales office.

www.st.com

## Figure 1. STEVAL-STWINWFV1 schematic

# Revision history

**Table 1.** Document revision history

| Date | Version | Changes |
| --- | --- | --- |
| 29-Jul-2019 | 1 | Initial release. |

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