



Date: 16 February 2017

From: STMicroelectronics

Subject: **Version 1.0.0 Release Notes SPWF04S-170216-fd39c59**

(1) Highlight:

This is the first release for SPWF04Sx series of Wi-Fi Modules.

(2) New features

- * Peripherals
 - * 19 GPIOs
 - * PWM, 3xADC, DAC
 - * True Random Number Generator
 - * SHA and MD5 cryptographic hash function
 - * RTC
- * Power modes
 - * Active, Powersave, Sleep, Stand-by
- * MicroPython
 - * Peripherals, Network and Socket Layer
 - * I2C, SPI and UART Peripherals management
 - * WIND ad-hoc class for asynchronous events management
- * TCP/IP stack
 - * IPv4 and IPv6 addressing
 - * 8 simultaneous socket client instances
 - * 2 simultaneous socket server instances, supporting up to 8 clients each
 - * HTTP client and server
 - * 2 simultaneous Websocket instances (including MQTT client)
 - * MQTT client (over Websocket)
 - * SMTP
 - * TFTP client and server
 - * SNTP client
 - * DHCP client and server
 - * DNS client and server
 - * mDNS
- * Transport Layer Security
 - * TLS v1.0, TLS v1.1 and TLS v1.2, with automatic downgrade of protocol version
 - * 2 simultaneous server instances
 - * 1 client instance
 - * RSA key exchange algorithms
 - * One-way and Mutual Authentication
- * Webserver

- * Support for Server-side-includes
- * 4 simultaneous clients
- * WPA Supplicant
 - * STA, IBSS and MiniAP mode
 - * Open, WEP, WPA-PSK and WPA-Enterprise security protocols
 - * WPS
- * Filesystem
 - * FAT
 - * Up to 4 volumes managed at a time: RAM Disk, APP Disk (maskable), User Disk, 8Mb SPI Flash or SD-Card

(3) Bug fixes

- * none

(4) Backward compatibility changes

- * none

(5) Known issues

- * none