Overview :
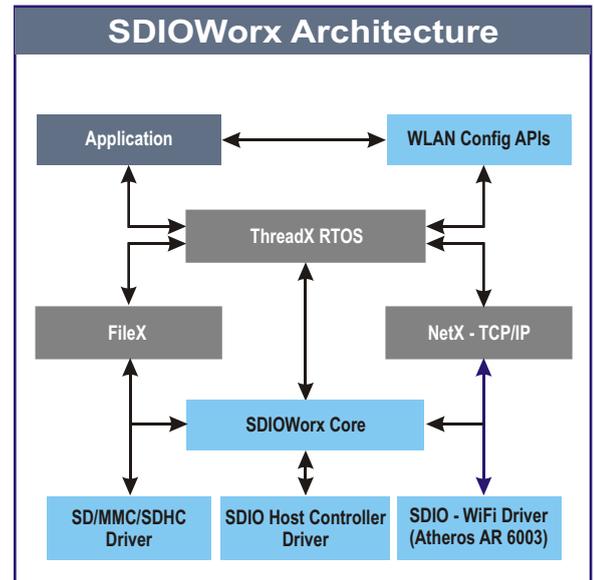
embWiSe's embedded Secure Digital I/O (SDIO) software stack - *"SDIOWorx"* - is the only commercial SDIO software stack supported on ThreadX RTOS. As a third party ISV partner of Express Logic, embWiSe now supports Atheros Communication' most recent AR 6003 WLAN technologies with its SDIOWorx under ThreadX RTOS.

Highlights :

✳ The only SDIO software stack optimized for ThreadX RTOS with integrated SDIO-WiFi driver support for Atheros' AR6003 WLAN technologies.

✳ High Performance : Data througput rate of 36Mbps uplink and 30Mbps downlink on Atmel AT91SAM9263 (ARM9 Core) Development Platform

✳ Support for embedded Wireless Protected Access (WPA/WPA2 - PSK, EAP) Supplicant based on 802.11i standards integrated with AR6003 SDIO-WiFi driver Enhances Wireless Security

✳ Tested and validated on Standards based SD Host, Samsung's ARM7 and Atmel's AT91SAM9263 (ARM9) processor platforms with more application processor support on the anvil

✳ High performance SD/MMC/SDHC Storage drivers integrated with FileX File System

✳ Complete SD /MMC/SDHC standards based Storage and production ready SDIO-WiFi support for AR6003, accelerates time to market for device OEMs across all the verticals

✳ Accelerates SDIO functionality test and validation for semiconductor and perpheral card vendors

SDIOWorx Architecture

AR 6003 SDIO-WiFi Driver Software Features :

➢ 802.11n Infrastructure AP/STA and Ad-Hoc (IBSS) network mode
➢ 64 and 128 bit WEP Key Encryption for Infrastructure and Ad-Hoc mode
➢ IEEE Power Save mode
➢ Rate Adaptation
➢ Deep Sleep Support
➢ Transmit Power Control
➢ WEP64 and 128 bit encryption
➢ WPA/PSK, AES, WPA2-PSK, 802.1x authentications with EAP
➢ Set of APIs to configure the WLAN parameters
➢ Future support for Cisco Compatible Extersions (CCX) v4 for ASDs.

embWiSe provides embedded SDIO stack and SPI/SDIO-WiFi solutions on several Host processor and OS platforms. embWiSe's ready-to-go WiFi solutions mitigate device designers' engineering lead-time and time-to-market. With several successful design-ins in a variety of devices, ranging from mobile phones to PoS terminals, embWiSe is well placed to meet device designers' unique embedded WiFi needs.

For more information, please visit www.embwise.com;   **Contact:** info@embwise.com