Radicom Research’s RW8200 Embedded WiFi Module supports Serial, SPI and optional USB interfaces. It integrates an ARM Cortex-M3 host processor, Broadcom’s Wireless Internet Connectivity for Embedded Devices (WICED) supported Wi-Fi chipset, RF front end, clocks and on-board antennas or U.FL connectors into a compact module. The RW8200 can be used to add state of the art data Wi-Fi wireless operation to any system with minimum engineering resources.

Featuring self-contained Wi-Fi subsystem, a streamlined and simple connectivity API and complete software development environment, the RW8200 can be used as a standalone Wi-Fi station or network controller. It allows OEM’s to incorporate wireless connectivity into a broad range of products that previously did not feature networking capability.

The RW8200 contains Wi-Fi networking library and software application stack that enables simplified Wi-Fi integration into any MCU based consumer products. It provides Wi-Fi adoption in emerging markets including Connected Home Appliances, Consumer Electronics and Cloud-based Sensors, Healthcare and Security services.

Sample Applications

**Smart Energy:**
- Lighting Control
- HVAC Control
- Thermostats
- Appliances

**Healthcare Devices:**
- Glucose Monitor
- ECG/Heart Monitor
- Blood Pressure Monitor
- Fitness Equipment

**Home / Industrial Automation:**
- Security Cameras
- Security Alarm System
- Remote Control
- Building Automation

**FEATURES:**

- Interfaces: Serial and SPI
- USB interface available with a Serial-to-USB adapter
- 802.11 b/g/n compliant
- Solutions with WLAN, MAC, baseband and power amplifier
- Wi-Fi client and AP mode support
- Serial-to-Wi-Fi API interface
- RTOS & TCP/IP stack support
- Configurable through AT commands
- Wi-Fi security: WEP-128, WPA-PSK(TKIP), WPA2-PSK
- Low power 3.3V operation
- Extended operating temperature (-30°C to +85°C)
- Small size: 0.79” x 1.30” x 0.09” (20 x 33 x 2.2mm)
- On-board antennas or U.FL connectors
- Dual antennae for MIMO single stream operation
- Sensor applications support: ADC, DAC, I2C, GPIO
- Transmit power: +18 dBm @ 11b/11Mbps
- Maximum receive sensitivity: -96dBm
- Agency approvals: (pending) FCC, IC & CE
- RoHS compliant