RN-131 Evaluation Kit   [Buy Now]

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Part Number: RN-131-EK

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The RN-131-EK is an 802.11 b/g Wi-Fi evaluation kit for the RN131 module that can be used to quickly add Wi-Fi connectivity to embedded applications. It has the flexibility to connect directly to a PC via a standard USB interface or to embedded processors through the TTL/UART interface. The board also includes 2 convenient push buttons for controlling both SoftAP and WPS (Wi-Fi Protected Setup) mode without software configuration. The status LEDs and jumpers enable rapid prototyping and integration into existing systems.

The RN-131-EK supports the evaluation of projects planning to use the RN131 module. The RN131 module incorporates a 2.4 GHz radio, processor, full TCP/IP stack, real-time clock, and supports the FTP client, DHCP, DNS, and HTML client protocols. The module supports ad hoc and infrastructure networking modes along with SoftAP mode.

The RN131 module is programmed and controlled from a console with a simple ASCII command language. Once the configuration is set up, the module can automatically scan to find an access point, associate, authenticate, and connect over any Wi-Fi network. Additionally, the module can automatically wake up, send data to a remote host, and go back to a low-power sleep state.

Features   **Package Contents**

- Ultra-low power: 4 µA sleep, 40 mA Rx, 210 mA Tx
- Complete on-board TCP/IP networking stack
- Fixed transmit power: +18 dBm
- UART hardware interface
- High throughput, 1 Mbps sustained data rate with TCP/IP and WPA2
- Push buttons for AP/WPS mode and reset signals
- Supports both Adhoc and SoftAP mode (including SoftAP for Android)
- 10 general-purpose digital I/O pins
- 8 analog sensor interfaces
- Real-time clock for wakeup and time stamping
- Wi-Fi Alliance certified for WPA2-PSK
- FCC/CE/IC certified and RoHS compliant

Documentation & Software   Back To Top

Documents	Last Updated	Size	
WiFly Module Command Reference User's Guide	7/14/2014 4:19:39 PM	2MB	📄
RN131/171 Evaluation Kit User Guide	10/3/2013 3:46:16 PM	2MB	📄
Wireless Bluetooth® and Wi-Fi® Evaluation Kits Sell Sheet	4/24/2013 12:26:23 PM	1MB	📄
RN-131-EK Schematic	10/23/2012 11:09:47 AM	181KB	📄
FTDI Chipset Drivers	5/2/2012 11:24:49 AM	3MB	📄