



Wi-Fi Application Kit (802.11b)

Integrating Wi-Fi (IEEE 802.11b) with a RabbitCore™ Development Kit, embedded system integrators can now enable a wireless embedded system. Wireless connectivity eliminates Ethernet cables allowing for greater flexibility and mobility of wireless embedded Networks.

Z-World's Wi-Fi Applications Kit provides all the tools necessary to sample and design communications from a Rabbit-based device to a WiFi-enabled device (e.i. PC Laptop or any device using a Compact Flash based Wi-Fi card). The libraries and sample programs allow for a Wi-Fi card to send and receive data to/from a RabbitCore module (RCM) over a wireless connection. The RCM can also send/receive email from any PC or device with a compatible Wi-Fi card. The Wi-Fi Applications Kit includes Z-World's Dynamic C software with royalty-free TCP/IP stack.

RabbitWeb Browser Interface (Not Included in Kit)

The Wi-Fi Application Kit can also be supported by an optional RabbitWeb Software Module. RabbitWeb offers the following benefits for developing a Web interface to run in a Wi-Fi application:

- Read and write program variables remotely, while eliminating complex CGI programming
- Easily create controls such as pull-down menus or control buttons
- Ensure valid input values and proper user authorization
- Elegantly indicate input errors for easy correction
- 10X reduction in CGI programming and debugging time



Applications

- Wireless Automation and Control
- Convenient Data and Event Logging
- Instrumentation Monitoring

Wi-Fi Development Partner



Z-World has partnered with LinkSys to provide Wi-Fi hardware support and is a key resource in Wi-Fi integration that supports Z-World's low-cost product offering.

Linksys is known as the leader in networking solutions for the home and small business particularly wireless LAN equipment, broadband routers, network adapters for the desktop and notebook PC and hubs and switches. Linksys has been recognized with top awards from PC Magazine, PC World, CRN, VARBusiness, Network World, InfoWorld and much more. Linksys has also been named as an Inc. 500 Hall of Fame inductee for its 5 years of continuous growth as well as being one of the fastest growing private companies in the US.

Wi-Fi Application Kit Specifications

FEATURE	Wi-Fi Application Kit
Microprocessor Core Module	RCM3100 RabbitCore module @ 29.4 MHz 512K Flash 512K SRAM
Prototyping Board	Standard RCM3100 Prototyping Board
Serial Ports	RS-232 (2 3-wire or 1 5-wire). Additional CMOS ports available on RCM3100
Wi-Fi Card	- Kit developed w/ LinkSys WCF12 - Other compatible cards: Sandisk, Netgear, SMC, D-Link
Protocol	IEEE 802.11b (Wi-Fi) 11Mbps, 2.4 GHz
Compact Flash Connector *	Type 1 Compact Flash Adapter: - CF based 802.11b IO - Dual 2 x 17, 0.1" pitch socket strip
Software Compiler	Dynamic C with TCP/IP stack
Additional Software Libraries	RabbitWeb Software Module (optional, not included)
Sample Programs	Flash Datalogger: - log current temperature - use http to clear, download log, and set date Serial Wifi - RS-232 to Wifi converter Wifi Scanner Smtp2msg.c - Receive smtp message, and control a serial message board
Cables	Programming Cable for RCM DB-9 to 10 pin serial cable
Documentation	Wi-Fi Applications Kit Getting Started Manual RCM3100 Getting Started Manual
Power	12V DC, 1000 mA
Operating Temperature	0°C to +55°C
Humidity	10-90%, noncondensing
Pricing	\$599
Part Number	U.S. 101-0911 Int'l 101-0912

* Compact Flash adapter not suitable for generic applications: Only works with kit

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