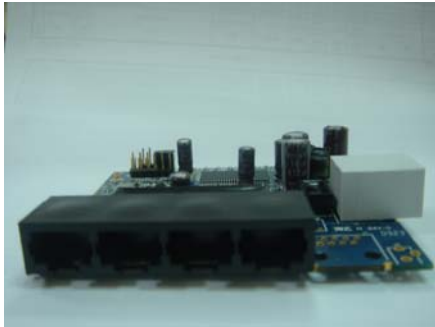


Model No : FN2-RLH5R

Lanready Network Appliance - “Compact Size “ Support on board radio WiFi-N, 2.4GHz , 500mW



FN2-RLH5R is a fully-featured reference appliance for based on the Realtek 8196B MIPS-based (400 MHz) WiFi network SoC, targeting small and medium business and embedded computing applications. FN2-RLH5R enables rapid evaluation and development of converged “ solution in a box “ products – integrating High Power 500mW wireless CPE , outdoor bridge with 4 Port Switch for connecting outdoor IP Device (such as Outdoor IP Camera) .

Application :

- **Outdoor/Indoor Long Range Point-To-Point Bridge**
- **Outdoor/Indoor Long Range Hot Spot**
- **Outdoor/Indoor Long Range CPE**
- **Outdoor/Indoor AP Bridge**

Product Hardware Features

- **802.11n 1T1R (150Mbps PHY data rate)**
- **Compact Size : 7.8CM x 8.5 CM**
- **Transmitting Power : 27dBm**
- **Receiving : -97dBm**
- **1 receivers and 1 transmitters**
- **2.4 GHz band**
- **20Mhz/40Mhz channel width**
- **Legacy and high throughout modes**
- **Multiple BSSID (up to 4)**
- **WEP64/128, WPA, WPA2 engines**
- **QOS-WMM ,WMM Power Save**
- **1 * PoE Port and 4 RJ 45 Ports for Outdoor IP Device use**

Realtek Software SDK Feature

- **Operation Modes : Access Point, Repeater(WDS) ,Bridge, Client Bridge**
- **Fully Backwards Compatible with all 802.11b Wireless Network**
- **150 Mbps at 500mW (1T1R) , 300Mbps at 100mW (2T2R) Wireless Distribution System(WDS) when running in Repeater mode Maxmum Security with 802.1x, WPA, and AES**

Software Spec

- AP Mode
 - High speed for wireless LAN connection up to 54 Mbps.
 - Supports web browser-based configuration utility.
 - Provides 64/128-bit WEP Encryption; ASCII/JES Mode; Pass phase to generate Keys
 - Provides MAC Address Filtering
 - Provides WPA (PSK/ IEEE 802.1x, enhancing WLAN security)
 - Provides WPA2(AES/CCMP) – Future upgrade
 - Mixed Mode support
 - Support Multi-BSSID (up to 4)
 - Broadcast SSID
 - Hidden ESSID Support
 - Site Survey Function Support
- Repeater Mode
 - Point to the AP/Router (MAC address)
 - Mixed Mode support
 - WEP64/128bit; ASCII/HEX Mode; Pass phase to generate Keys
 - WPA(PSK/802.1x) – Future upgrade via Firmware
 - MAC Filter
 - Link Repeater & Multipoint Repeater Mode support
 - Universal Repeater Mode support – Future upgrade via Firmware
- Client Mode
 - MAC Cloning Mode Support for Gaming
 - Ad-Hoc/Infrastructure Mode support
 - WEP 64/128bit;ASCII/HEX Mode; Pass phase to generate Keys
 - Site Survey
 - Short/Long Preamble support
 - Channel Selection

Hardware Specifications

Hardware Specifications	
Base Platform	Realtek 8196B+RT8192SE
Clock Speed	400 MHz
Wireless Radio	802.11 b/n
Serial Port	1 * Consol
Reset Switch Built-in	Push-button momentary contact switch
Standards Conformance	IEEE 802.3 / IEEE 802.3u
Ethernet Configuration	10/100BASE-TX auto-negotiation Ethernet port x 4 (RJ-45 connector) Auto MDI/MDI-X enabled ,Passive Power Over Ethernet Compatible * 1
SDRAM	On board : 16 Mbytes (Max : 32Mbytes)
Flash	On board : 2 Mbytes (Max : 8Mbytes)
Built-In LED Indicators	1x Power , 1 x Wireless , 1x LAN

Wireless Specifications	
Network Standards Conformance	IEEE802.11 b/g/n (Draft 2.0) compliant
Data Transfer Rate	IEEE802.11b : 1 / 2 / 5.5 / 11Mbps (auto sensing) IEEE802.11g : 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54(auto sensing) IEEE802.11n : Draft 2.0
Frequency Range	2.412 ~ 2.462GHz (USA) 2.412 ~ 2.484GHz (Japan) 2.412 ~ 2.472 GHz (Europe ETSI) 2.457 ~ 2.462 GHz (Spain) 2.457 ~ 2.472 GHz (France)
Channel Spacing	B/G Mode: 20MHz N Mode : 20/40MHz
Media Access Protocol	CSMA / CA with ACK
Modulation Method	B/G Mode: OFDM with BPSK, QPSK, QAM, and 64QAM N Mode: BPSK,QPSK,QPSK,16-QAM,64-QAM
RF Output Power	500mW
Transmit Power Variation	27 dBm
Frequency Response flatness	±1dB over operating range
Receiver Sensitivity	-97dBm
Environmental & Mechanical Characteristics	
Operating Temperature	-20 °C ~ 60 °C
Storage Temperature	-20 °C ~ 70 °C
Operating Humidity	10% to 80% Non-Condensing
Storage Humidity	5% to 90% Non-Condensing
Antenna Connector	2 * IPEX Reverse -Type Connector
Power Consumption	9W
Input Power	12 VDC
Connector	DC-In Jack , RJ 45 (Power Over Ethernet)
Power Supply	AC Input : 110 – 220V AC Power DC Output : 12 VDC, 1 A input
Board Dimensions	78 x85 (mm) (Width x Depth)