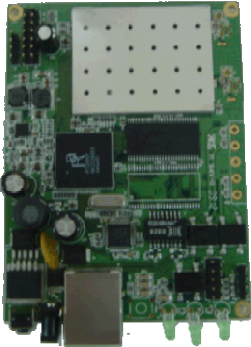


Model No : FN2-RLH5X

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



**FN2-RLH5X is a 500mW fully-featured reference appliance for based on the Realtek 8196B MIPS-based (400 MHz) WiFi network SoC, targeting Outdoor AP, Outdoor CPE , Hot Spot , Point to Point , Point to Multi Point applications.**

**FN2-RLH5X ships standard with powerful CenOS (Level-1 Firmware – Cen-CPE)**

**Cen-CPE can be used for three purposes .**

- 1) Access Point : it can be deployed as a traditional fixed wireless Access Point**
- 2) WDS : it can be expanded wireless service as WDS**
- 3) CPE ( Customer Premises Equipment) : that connects to Wireless Internet Service Provider’s (WISP)**

## **High Lights**

- 802.11n 1T1R (150Mbps PHY data rate)
- 500mW at 2.4Ghz Output Power
- Receiving : -97dBm
- Topology : Point to Point ; Point to Multi Point
- Operation Modes : Access Point, WDS(Repeater/ Bridge), CPE
- Maxmum Security with 802.1x, WPA, and AES
- Support QoS & WMM
- Integragted Power over Ethernet (PoE)
- Multiple Virtual AP & Capability of Client Isolation
- Business –class WLAN Security and Client Authentications
- Provide Advanced Wireless Setting (ACK/CTS )
- Support Web management and SNMP MIB-II

## Feature

### Wireless Architecture Mode :

- AP Mode
- WDS Mode (Repeater/Bridge)
- CPE Mode

### Access Point Feature

- Number of ESSID : 8
- Number of associated clients per AP : 32
- Three Mode : AP Mode , WDS Mode , and CPE Mode
- WDS Mode : to extend wireless coverage by connecting wirelessly to another WDS capable AP. Support up to 8 WDS links
- Slot Time , ACK/CTS Timeout
- RSSI threshold support
- TX burst support
- Beacon interval: adjustable to best adapt to the deployment environment
- IAPP : to facilitate faster roaming for the stations among different APs nearby
- 802.11n protection : to let the transmission rate of associated 802.11g and 802.11b not to be affected with surrounding existence of 802.11b stations
- RTS and fragmentation control
- Adjustable transmission power : 9 Levels
- Wireless site survey : for scanning the surrounding access points for connection
- VLAN tag support

### Gateway Function in the CPE Mode

- Built-in NAT mode : to support IP sharing on the LAN side for multiple users (subscribers) to get access to the Internet
- Built-in DHCP server for issuing local IP address
- Built-in DNS client
- IP/Port forwarding and DMZ
- IP/MAC rule filtering

### Authentication/Encryption (Wireless Security)

- Data encryption: WEP(64/128/152-bits) , WPA/WPA2 with TKIP or AES-CCMP
- User Authentication : WEP, IEEE802.1X,WPA-PSK,WPA-Enterprise , MAC ACL
- Setting for TKIP/CCMP/AES key's refreshing period
- Support IEEE802.11 mixed mode , open and shared key authentication
- Hidden ESSID: broadcast SSID option can be turn off to prevent SSID broadcast to the public
- Station Isolation setting : when enabled , all stations associated with this AP can not communicate with each other
- Support data encryption over WDS link

### Quality of Service

- DiffServ/TOS
- IEEE802.11p/COS
- IEEE 802.11Q Tag VLAN priority control
- IEEE802.11e WMM

## Management

- Web-Based management interface
- Remote configuration and management
- Remote firmware upgradeable
- Software one-button-click to reset back to factory defaults
- Utilities for system configuration backup and restoration
- SNMP MIBII support (v2c/v3)
- NTP time synchronization
- Syslog client
- Support Event log
- Support statistics on total transmission encountered and transmitting error occurred

## Hardware Specifications

<b>Base Platform</b>	Realtek 8196B+RT8192SE
<b>Clock Speed</b>	400 MHz
<b>Wireless Radio</b>	802.11 b/n
<b>Serial Port</b>	1 * Consol
<b>Reset Switch Built-in</b>	Push-button momentary contact switch
<b>Standards Conformance</b>	IEEE 802.3 / IEEE 802.3u
<b>Ethernet Configuration</b>	10/100BASE-TX auto-negotiation Ethernet port x 1 (RJ-45 connector) Auto MDI/MDI-X enabled ,Passive Power Over Ethernet Compatible
<b>SDRAM</b>	On board : 32 Mbytes ( Max : 32Mbytes)
<b>Flash</b>	On board : 8 Mbytes (Max : 8Mbytes)
<b>Built-In LED Indicators</b>	1x Power , 1x LAN, 1 x WLAN
<b>Wireless Specifications</b>	
<b>Network Standards Conformance</b>	IEEE802.11 b/g/n (Draft 2.0) compliant
<b>Data Transfer Rate</b>	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
<b>Frequency Range</b>	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)
<b>Channel Spacing</b>	B/G Mode: 20MHz N Mode : 20/40MHz
<b>Media Access Protocol</b>	CSMA / CA with ACK

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<b>Modulation Method</b>	B/G Mode: OFDM with BPSK, QPSK, QAM, and 64QAM N Mode: BPSK,QPSK,QPSK,16-QAM,64-QAM
<b>RF Output Power</b>	500mW
<b>Transmit Power Variation</b>	27 dBm
<b>Frequency Response flatness</b>	±1dB over operating range
<b>Receiver Sensitivity</b>	-97dBm
<b>Environmental &amp; Mechanical Characteristics</b>	
<b>Operating Temperature</b>	-20 °C ~ 60 °C
<b>Storage Temperature</b>	-20 °C ~ 70 °C
<b>Operating Humidity</b>	10% to 80% Non-Condensing
<b>Storage Humidity</b>	5% to 90% Non-Condensing
<b>Antenna Connector</b>	2 * IPEX Reverse -Type Connector
<b>Power Consumption</b>	9W
<b>Input Power</b>	12 VDC
<b>Connector</b>	DC-In Jack , RJ 45 (Power Over Ethernet)
<b>Power Supply</b>	AC Input : 110 – 220V AC Power DC Output : 12 VDC, 1 A input
<b>Board Dimensions</b>	55 x85 (mm) (Width x Depth)