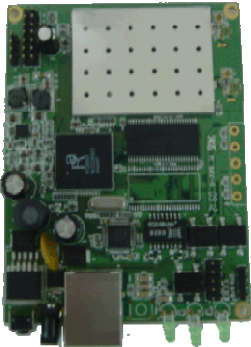


Model No : FN2-RTH2-LX

Lanready Network Appliance – Support on board radio 5GHz , 200mW



FN2-RTH2-LX is a fully-featured reference appliance for based on the Ralink 2880 MIPS-based (266MHz) WiFi network SoC, targeting small and medium business and embedded computing applications. FN2-RTH2-LX enables rapid evaluation and development of converged “ solution in a box “ products – integrating High Power wireless CPE , outdoor bridge , enterprise-grade wireless access point .

## Application :

- **Outdoor/Indoor Long Range Point-To-Point Bridge**
- **Outdoor/Indoor Long Range Hot Spot**
- **Outdoor/Indoor Long Range CPE**
- **Outdoor/Indoor AP Bridge**
- **Outdoor/Indoor Ethernet Client Bridge for Video Server , IP-Based Display and Control System**

## High Lights

- IEEE 802.11n draft 2.0 compliance in 2Tx/2Rx design
- Support IEEE 802.11a
- Operates in the 5GHz ISM band
- Enables bandwidth of up to 300Mbps(Tx) , 300Mbps (Rx) link rate
- Topology : Point to Point ; Point to Multi Point
- Operation Modes : Access Point, Repeater(WDS) ,Bridge, Client Bridge
- Support 8 Multi-BSSID
- Maxmum Security with 802.1x, WPA, and AES
- Over load current protection
- Wide Range Voltage support (12-68VDC)
- Integragted Power over Ethernet (PoE)

## Software Feature

### Wireless Architecture Mode :

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

### Wireless Feature

- Transmission power control : 1-100 Levels
- Channel selection : Manual or Auto
- No of associated clients per AP : 32
- Setting for max no associated clients : Yes
- No of BSSID (Virtual AP ) : 8
- No of WDS Setting : 4
- Preamble setting : Short/Long
- Setting for 802.11n or 802.11a only
- Setting for transmission speed
- Setting for max no. of Wireless re-transmission
- IEEE802.11f IAPP(Inter Access Point Protocol) , hand over users to another AP
- IEEE 802.11i Preauth (PMKSA Cache )
- IEEE 802.11h -Transmission Power Control
- IEEE 802.11d -Multi country roaming
- AP Site Survey (CPE Mode)

### Authentication/Encryption (Wireless Security)

- Zone Privacy for client to client locking (User Isolation)
- Blocks client to client discovery within a specified VLAN for public Hotspots
- WEP64/128
- EAP-TLS+ Dynamic WEP
- EAP-TTLS+ Dynamic WEP
- PEAP/MS-PEAP+Dynamic WEP
- WPA(PSK+TKIP)
- WPA(802.1x certification+TKIP)
- 802.11i WPA2 (PSK+CCMP/AES)
- 802.11i WPA2(802.1x certification +CCMP/AES)
- Setting for TKIP/CCMP/AES key's refreshing period
- Hidden ESSID support
- Setting for " Deny ANY " connection request
- MAC Address filtering (MAC ACL)
- No. of registered RADIUS servers : 1
- IEEE802.11 mixed mode support open and shared key authentication
- VLAN assignment on BSSID
- VPN Pass Through

### Quality of Service

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

## Management

- Web-Based management
- Change IP setting
- Change Password setting
- Firmware update
- Load Default setting
- Remote Link Test – Display connect statistics
- SNMP Traps to a list of IP number
- Administrative Access : Web browser (HTTPS)
- Even Log
- Support DHCP Server
- Support DHCP Client (CPE Mode)
- Support PPPoE (CPE Mode)
- Support MAC Clone (CPE Mode)
- Support SNMP v 2c and V 3
- Support MIB II
- Support Telnet
- Support HTTP/WEB
- Support TFTP
- Command Line Interface (CLI)

## Hardware Specifications

<b>Base Platform</b>	Ralink 2880 + 2850
<b>Clock Speed</b>	266 MHz
<b>Wireless Radio</b>	802.11 a/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
<b>Flash</b>	On board : 8 Mbytes
<b>Built-In LED Indicators</b>	1x Power , 1x LAN, 1 x WLAN
<b>Wireless Specifications</b>	
<b>Network Standards</b>	IEEE802.11 a/n (draft 2.0) compliant

<b>Conformance</b>	
<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>	A Mode: 5.15~5.35 & 5.725~ 5.825 GHz for US 4.9~5.25 GHz for Japan (Subject to change) 5.15~5.35 & 5.47~5.725 GHz for ETSI  N Mode : 5.15~5.35 & 5.725~ 5.825 GHz for US 4.9~5.25 GHz for Japan (Subject to change) 5.15~5.35 & 5.47~5.725 GHz for ETSI
<b>Channel Spacing</b>	A Mode: 20MHz N Mode : 20/40MHz
<b>Media Access Protocol</b>	CSMA / CA with ACK
<b>Modulation Method</b>	A Mode: OFDM with BPSK, QPSK, QAM, and 64QAM N Mode: BPSK,QPSK,QPSK,16-QAM,64-QAM
<b>Operating Channels</b>	Channels Support: A Mode: US: 12 (Ch:36,40,44,48,52,56,60,64,149,153,157,161) Japan: 4 (Ch:34,38,42,46)and 7( 4.92, 4.94, 4.96,4.98, 5.04, 5.06, 5.08GHz) (Subject to change) ETSI:19(Ch:36,40,44,48,52,56,60,64,100,104,108, 112,116,120,124,128,132,136,140)  N @ 5GHzMode: US: 12 (Ch:36,40,44,48,52,56,60,64,149,153,157,161) Japan: 4 (Ch:34,38,42,46)and 7( 4.92, 4.94, 4.96,4.98, 5.04, 5.06, 5.08GHz) (Subject to change) ETSI:19(Ch:36,40,44,48,52,56,60,64,100,104,108, 112,116,120,124,128,132,136,140)
<b>RF Output Power</b>	200mW
<b>Transmit Power Variation</b>	23 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



## LanReady Technologies Inc.

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<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 (MMCX Connector optional)
<b>Power Consumption</b>	9W
<b>Overload Current Protection</b>	1.1A
<b>Input Power</b>	12-68 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, 1.5A input
<b>Board Dimensions</b>	74 x110 (mm) (Width x Depth)