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Model No : FN2-A3H5-X

Lanready Network Appliance – Support on board radio 500mW

FN2-A3H5-X is a fully-featured reference appliance for based on the Atheros 2315 MIPS-based WiFi network SoC, targeting small and medium business and embedded computing applications. FN2-A3H5-X 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**
- **Industrial-Use Wireless Access Point**
- **Outdoor/Indoor Ethernet Client Bridge for Video Server , IP-Based Display and Control System**

High Lights

- 500mW at 2.4Ghz Output Power
- Topology : Point to Point ; Point to Multi Point
- Operation Modes : Access Point, WDS(Repeater/ Bridge), CPE(Client Bridge)
- Maxmum Security with 802.1x, WPA, and AES
- Support 3 LEDs Wireless Signal Strength
- Over load current protection
- Wide Range Voltage support (12-68VDC)
- Integragted Power over Ethernet (PoE)

Feature

Wireless Architecture Mode :

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

Wireless Feature

- Transmission power control : 9 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
- Preamble setting : Short/Long
- Setting for 802.11b/g or g 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/AED key's refreshing period
- Hidden ESSID support
- Setting for " Deny ANY " connection request
- MAC Address filtering (MAC ACL)
- No. of registered RADIUS servers : 2
- IEEE802.11 mixed mode support open and shared key authentication
- VALN assignment on BSSID
- Support VLAN tag over WDS

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
- Even Log
- Support DHCP Server
- Support DHCP Client
- Support SNMP v2c/V3
- Support MIB II
- Support Telnet
- Support HTTP/WEB
- Support TFTP
- Command Line Interface (CLI)

Hardware Specifications	
Base Platform	AR2315

Clock Speed	180 MHz
Wireless Radio	802.11bg
Serial Port	1 * DB9 (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 1 (RJ-45 connector) Auto MDI/MDI-X enabled ,Passive Power Over Ethernet Compatible
SDRAM	On board : 16 Mbytes
Flash	On board : 4 Mbytes
Built-In LED Indicators	1x Power , 1x LAN, 3 x WLAN (Wireless Strength Indication)
Wireless Specifications	
Network Standards Conformance	IEEE802.11 b /g 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)
Frequency Range	IEEE802.11b/g： 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)
Media Access Protocol	CSMA / CA with ACK
Modulation Method	IEEE802.11b：DSSS (DBPK,DQPSK,CCK) IEEE802.11g：OFDM(64-QAM,16-QAM,QPSK,BPSK)
Operating Channels	802.11b/g : 11 for FCC,14 for Japan,13 for Europe, 2 for Spain, 4 for France
RF Output Power	500mW
Transmit Power	27 dBm :6MB/1MB, 23dBm:54MB

Variation	
Frequency Response flatness	±1dB over operating range
Receiver Sensitivity	1Mbps: -97dBm, 6Mbps:-93dBm,11Mbps:-89dBm,54Mbps:-74dBm
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
Overload Current Protection	1.1A
Input Power	12-68 VDC
Connector	DC-In Jack , RJ 45 (Power Over Ethernet)
Power Supply	AC Input : 110 – 220V AC Power DC Output : 12 VDC, 1.5A input
Board Dimensions	74 x110 (mm) (Width x Depth)