

Model No. FN3AH5

Wireless-N/A, 5Ghz, 500mW for Outdoor AP Bridge – PCBA



FN3A is a fully-featured reference appliance for based on the Atheros AR7240 MIPS-based Netowrk SoC and AR9280 5GHz Transceiver designed with 500mW 5GHz Power Amplifier WiFi , targeting small and medium business and embedded computing applications. FN2-A3H5 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 Long Range WiFi Converter

High Lights

- IEEE 802.11n Draft 2.0 Compliance in 2Tx / 2Rx Design
- Transmit Power : 500mW , Receiving Sensitivity : -97dBm
- Support IEEE 802.11n and 802.11a
- Operates in the 5GHz ISM Band
- Enables Bandwidth of up to 300Mbps(Tx), 300Mbps(Rx) link rate
- Dual Ethernet Connectivity – provide a secondary ethernet port PoE output for IP device



LanReady Technologies Inc.

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Hardware Specification

| | |
|-------------------------|---|
| Base Platform | AR7240 + AR9280 (5G RF) |
| CPU Clock Speed | 400 MHz |
| Wireless Radio | IEEE 802.11a/n |
| Serial Port | 1 * Console (Internal) |
| Reset Switch Built-in | Push-button momentary contact switch (Internal) |
| Standards Conformance | IEEE 802.3 / IEEE 802.3u |
| Ethernet Ports | <ul style="list-style-type: none"> ● 2 x 10/100Mbps Ethernet ports ● IEEE 802.3, 802.3u compliant ● CSMA/CD 10/100 auto sense ● Power over Ethernet (PoE) and PoE Pass Through |
| Flash | On board : 4/8MB |
| SDRAM | On board : 16/32MB |
| Built-In LED Indicators | 1 x Power, 1 x LAN, 1 x WLAN |

Wireless Specification

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| Network Standards Conformance | IEEE 802.11 a/n compliant |
| Data Transfer Rate | IEEE802.11a :6/ 9/ 12/ 18/ 24/ 36/ 48/ 54Mbps (auto sensing) IEEE801.11n(draft 2.0) : 300Mbps (Tx), 300Mbps (Rx) |
| Frequency Range | IEEE802.11a : 5.150 – 5.350 & 5.725 – 5.825 GHz(USA) 4.900 – 5.250 GHz(Japan) 5.150 – 5.350 & 5.470 – 5.725GHz (Europe ETSI) IEEE802.11n : 5.150 – 5.350 & 5.725 – 5.825 GHz(USA) 4.900 – 5.250 GHz(Japan) 5.150 – 5.350 & 5.470 – 5.725GHz (Europe ETSI) |
| Channel Spacing | IEEE802.11a : 20MHz IEEE802.11n : 20/40MHz |
| Media Access Protocol | CSMA/ CA with ACK |
| Modulation Method | IEEE 802.11a : OFDM with BPSK, QPSK, QAM and 64QAM IEEE 802.11n : BPSK, QPSK, 16-QAM, 64-QAM |



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| Operating Channels | <p>IEEE 802.11a :</p> <p>US : 12 (CH: 36, 40, 44, 48, 52, 56, 60, 64, 149, 153, 157, 161, 165)</p> <p>Japan : 4 (CH: 34, 38, 42, 46)</p> <p>ETSI : 19 (CH: 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140)</p> <p>IEEE 802.11n @ 5GHz :</p> <p>US : 12 (CH: 36, 40, 44, 48, 52, 56, 60, 64, 149, 153, 157, 161)</p> <p>Japan : 4 (CH: 34, 38, 42, 46)</p> <p>ETSI : 18 (CH: 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136)</p> |
| RF Output Power | 500mW |
| Transmit Power Variation | 27 dBm |
| Frequency Response Flatness | ±1dB over operating range |
| Receive Sensitivity | -97dBm |

| Environmental & Mechanical Characteristics | |
|---|---------------------|
| Operating Temperature | -20 °C ~ 60 °C |
| Storage Temperature | -20 °C ~ 85 °C |
| Operating Humidity | 100% Non-Condensing |
| Storage Humidity | 100% Non-Condensing |
| RF Connector | IPEX -Type * 2 |
| Power Consumption | 9W |
| Input Power | 18- 24 VDC |