

# ABDNA-xx-IN5xx0 model series

## Wi-Fi Dual Band Industrial Ethernet Bridge/Router



### Features

- 10/100 Mbps to 802.11a/b/g/n dual band (2.4 GHz, 5 GHz)
- Design with one Ethernet port
- Advanced Enterprise Class wireless security (WPA2-Enterprise, WPA, WEP, EAP)
- 5 to 36 V<sub>DC</sub> power required, sold separately. Power input via terminal block or DC jack

### Introduction

ABDNA Industrial Ethernet Bridge/Router are built for networking equipment in a wide array of machine-to-machine (M2M) applications. ABDNA series features industrial strength packaging and supports a wide temperature rating (-30 to +85 °C) to withstand challenging M2M environments.

These ABDNA products establish wireless connections over both 2.4 GHz and 5 GHz bands. Whenever the 2.4 GHz airspace is overcrowded with competing wireless transmission, ABDNA products can be switched over to 5 GHz band to keep data flowing.

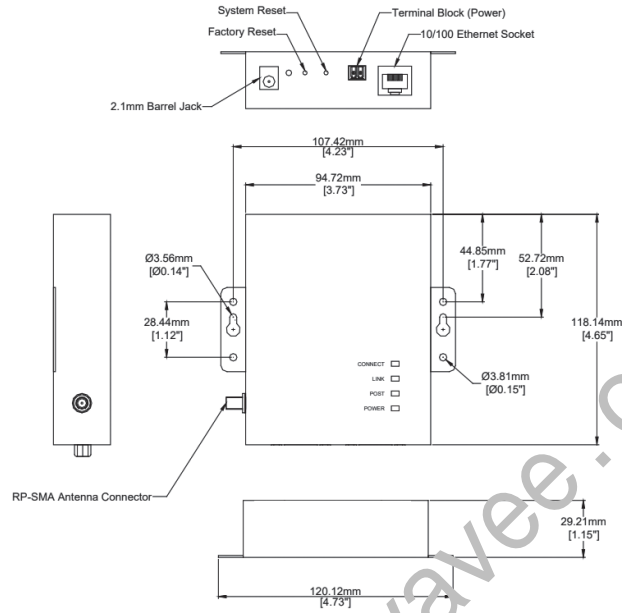
### Specifications

| Ethernet Communications     |   |
|-----------------------------|---|
| Speed                       | 10/100 Ethernet Port – Bridge, Router (NAT3) Modes  |
| Wireless LAN Communications |   |
| Compatibility               | IEEE 802.11a/b/g/n, Wi-Fi compliant   |
| Antenna                     | RP-SMA Omni-directional 5.5 dBi 2.4GHz / 5GHz Antenna   |
| Network Access Modes        | Infrastructure (Client)   |
| Security Protocols          | <ul style="list-style-type: none"> <li>Open, WEP 64 &amp; 128 bit, WPA-PSK (TKIP), WPA2-PSK (AES), 802.1x (EAP), WPA-Enterprise, WPA2-Enterprise, EAP-TLS/MSCAPv2, EAP-TLS/MSCAPv2, EAP-TTLS (MD5), EAP-PEAPv0/MSCAPv2, LEAP</li> <li>Advanced certificate storage and management</li> <li>SSH and SSL tunneling and encrypted configuration secure communications</li> </ul> |
| Frequency                   | 2412MHz~2483.5MHz (US/Canada/Europe)<br>5150~5725MHz (US/Canada/Europe)<br>5745~5825 MHz (US/Canada)  |
| Wireless Data Rate          | 802.11b: 1, 2, 5.5, 11Mbps<br>802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54Mbps<br>802.11n: up to 150Mbps-single  |
| Output Power                | WLAN 2.4GHz<br>11b: 16dBm +- 1.5dB<br>11g: 16dBm +- 1.5dB<br>11n BW20: 16dBm +- 1.5dB<br>11n BW40: 14dBm +- 1.5dB<br>WLAN 5GHz<br>11a: 13dBm +-2dB<br>11n BW20: 13dBm +-2dB<br>11n BW40: 12dBm +-2dB  |

| Receive Sensitivity   | WLAN 2.4GHz<br>11b 11M: -88dBm<br>11g 54M: -75dBm<br>11n MCS7 BW20: -72dBm<br>11n MCS7 BW40: -69dBm<br>WLAN 5GHz<br>11a 54M: -72dBm<br>11n MCS7 BW20: -69dBm<br>11n MCS7 BW40: -68dBm |
|-----------------------|---|
| Network Protocols     | TCP/IP, ARP, ICMP, DHCP, DNS, UDAP, TFTP, UDP, PING, HTTP, FTP  |
| LED Indicators        | 4 LED Indicators (COMM, LINK, POWER, POST) (Power on Self Test)   |
| Mechanics             |   |
| Mounting              | Panel mount, optional DIN rail brackets   |
| Enclosure             | Metal enclosure   |
| Dimensions            | 12.1 x 12.0 x 2.9 cm (4.9 x 4.7 x 1.2 in)   |
| Power Requirements    |   |
| Power Input           | 5-36V <sub>DC</sub> ±5%, 500mA (maximum)  |
| Power Connector       | 2-position terminal block, 2.1mm barrel jack  |
| Environment           |   |
| Operating Temperature | -30 to +85 °C   |
| Storage Temperature   | -40 to +85 °C   |
| Operating Humidity    | 10 ~ 95% (non-condensing)   |
| Regulatory Approval   |   |
| Certificate           | EMC CE, FCC part 15 subpart B   |

## Dimensions

Unit: mm



## Order Information

| Model Number    | Description            | Ethernet Connector | Powering                                  |
|-----------------|------------------------|--------------------|---|
| ABDNA-ER-IN5010 | Ethernet Bridge/Router | RJ45               | Power input via Terminal Block or DC jack |

## Accessories - sold separately

| Part Number        | Description  |
|--------------------|--|
| BB-PS-WDS          | Power supply, 5VDC, 120-240 VAC, 50/60 Hz, 3A, 15W, barrel connector (Note: includes USA cord; other cords sold separately.) |
| BB-DRAD35          | 35mm DIN rail adapter kit (pair of 2)  |
| BB-TBKT7           | Terminal block replacement, 2-position, 3.5mm, screw, Euro RA, plug  |
| BB-ACH2-DBAT-DP003 | 5 dBi - 2.4/5 GHz replacement antenna, rubber duck, RP-SMA   |