

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_{DC} 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

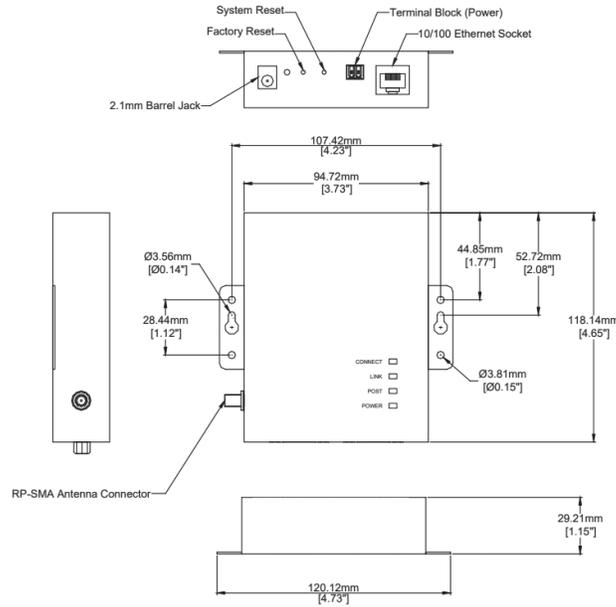
| Ethernet Communications | |
|-----------------------------|---|
| Speed | 10/100 Ethernet Port – Bridge, Router (NAT3) Modes |
| Wireless LAN Communications | |
| Compatibility | IEEE 802.11a/b/g/n, Wi-Fi compliant |
| Antenna | RP-SMA Omni-directional 5.5 dBi 2.4GHz / 5GHz Antenna |
| Network Access Modes | Infrastructure (Client) |
| Security Protocols | <ul style="list-style-type: none"> ▪ Open, WEP 64 & 128 bit, WPA-PSK (TKIP), WPA2-PSK (AES), 802.1x (EAP), WPA-Enterprise, WPA2-Enterprise, EAP-TLS/MSCHAPv2, EAP-TTLS/MSCHAPv2, EAP-TTLS (MD5), EAP-PEAPv0/MSCHAPv2, LEAP ▪ Advanced certificate storage and management ▪ SSH and SSL tunneling and encrypted configuration secure communications |
| Frequency | 2412MHz~2483.5MHz (US/Canada/Europe) 5150~5725MHz (US/Canada/Europe) 5745~5825 MHz (US/Canada) |
| Wireless Data Rate | 802.11b: 1, 2, 5.5, 11Mbps 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: up to 150Mbps-single |
| Output Power | WLAN 2.4GHz 11b: 16dBm +- 1.5dB 11g: 16dBm +- 1.5dB 11n BW20: 16dBm +- 1.5dB 11n BW40: 14dBm +- 1.5dB WLAN 5GHz 11a: 13dBm +-2dB 11n BW20: 13dBm +-2dB 11n BW40: 12dBm +-2dB |

| Receive Sensitivity | WLAN 2.4GHz 11b 11M: -88dBm 11g 54M: -75dBm 11n MCS7 BW20: -72dBm 11n MCS7 BW40: -69dBm WLAN 5GHz 11a 54M: -72dBm 11n MCS7 BW20: -69dBm 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 _{DC} ±5%, 500mA (maximum) |
| Power Connector | 2-position terminal block, 2.1mm barrel jack |
| Environment | |
| Operating Temperature | -30 to +85 °C |
| Storage Temperature | -30 to +85 °C |
| Operating Humidity | 10 ~ 95% (non-condensing) |
| Regulatory Approval | |
| Certificate | EMC CE, FCC part 15 subpart B |

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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 |