Features

- 10/100 Mbps to 802.11a/b/g/n dual band (2.4 GHz, 5 GHz)
- Compact form factor
- Advanced Enterprise Class wireless security (WPA2-Enterprise, WPA, WEP, EAP)
- 5 V DC external power input (powered from AC or USB port)
- External power supply required
- Available in OEM version (without enclosure)

Introduction

ABDNA enterprise wireless bridges and access routers are built for networking equipment in a wide array of machine to machine (M2M) applications. The compact form factor, integrated options and ease of use make it ideal for commercial enterprise environments.

Specifications

<table>
<thead>
<tr>
<th>Ethernet Communications</th>
<th>Wireless LAN Communications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Speed</strong></td>
<td>10/100 Ethernet Port — Bridge, Router (NAT3) Modes</td>
</tr>
<tr>
<td><strong>Compatibility</strong></td>
<td>IEEE 802.11a/b/g/n, Wi-Fi compliant</td>
</tr>
<tr>
<td><strong>Antenna</strong></td>
<td>Integrated RP-SMA Omni-directional 2dBi 2.4/5 GHz Antenna</td>
</tr>
<tr>
<td><strong>Network Access Modes</strong></td>
<td>Infrastructure (Client)</td>
</tr>
</tbody>
</table>

Security Protocols

- Disabled, WEP 64 & 128-bit, WPA (TKIP), WPA (AES), WPA2 (AES), 802.1x (EAP) Suppliant 802.11i, WPA & WPA2 Enterprise supplicants (EAP-TLS, EAP-TTLS,MSCHAPv2), EAP-TTLS (MDSS), EAP-PEAPv0 (MSCHAPv2, LEAP), EAP-FAST, LEAP, EAP
- Supports Certificates and Private Key Upload and Storage (multiple)

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: 15dBm + 1.5dB
  - 11g: 15dBm + 1.5dB
  - 11n BW20: 15dBm + 1.5dB
  - 11n BW40: 14.5dBm + 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: -68dBm
- WLAN 5GHz
  - 11a 54M: -72dBm
  - 11n MCS7 BW20: -69dBm
  - 11n MCS7 BW40: -68dBm

Network Protocols

- TCP/IP, ARP, ICMP, DHCP, DNS, UDP, TFTP, UDP, PING

LED Indicators

- 3 LED Indicators (Power, LINK, COMM)

Mechanics

- Enclosure: Nylon (gray), cradle base
- Dimensions: 6.12 x 9.96 x 3.18 cm (2.41 x 3.92 x 1.25 in)

Power Requirements

- Power Input: 5.0 VDC ±5%
- Power Connector: USB (2 open USB ports required; dual USB port power cable included)
  - Note: external power source required – see ordering table.

Environment

- Operating Temperature: -20 to +85 °C
- Storage Temperature: -20 to +85 °C
- Operating Humidity: 10 – 95% (non-condensing)

Regulatory Approval

- Certificate: EMC CE, FCC part 15 subpart B
ABDNA-er-DP551x model series

Dimensions

Unit: inch

Order Information

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
<th>Ethernet Connector</th>
<th>Powering</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABDNA-ER-DP551</td>
<td>Ethernet Bridge/Router</td>
<td>RJ45</td>
<td>AC Power Supply included with NATAM cable</td>
</tr>
<tr>
<td>ABDNA-ER-DP551U</td>
<td>Ethernet Bridge/Router</td>
<td>RJ45</td>
<td>Dual USB port power cable included. (USB powered – 2 open USB ports required)</td>
</tr>
</tbody>
</table>

World-wide. Check with your local distributor for availability and options.

Accessories - sold separately

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BB-ACH2-DBAT-DP002</td>
<td>2 dBi - 2.4/5 GHz replacement antenna, rubber duck, RP-SMA</td>
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</table>