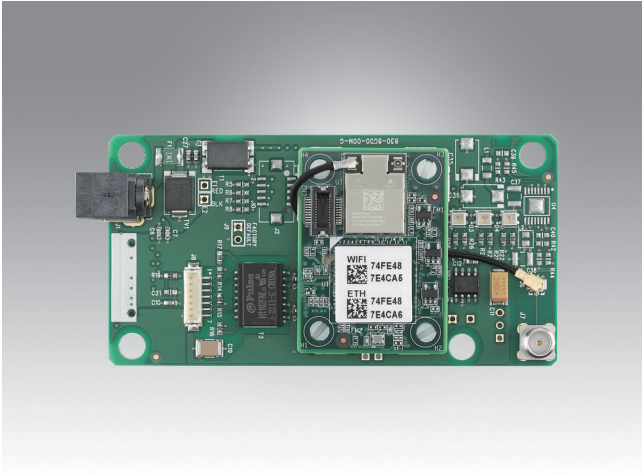


# ABDNA-ER-DP553

## Wi-Fi Dual Band Enterprise Ethernet Bridge/Router, Carrier Board



### Features

- 10/100 Mbps to 802.11a/b/g/n dual band (2.4 GHz, 5 GHz)
- Advanced Enterprise Class wireless security (WPA2-Enterprise, WPA, WEP, EAP)
- Wide operating temperature range: -20 to +80 °C
- OEM open board, industrial design
- Antenna, Ethernet Cable, 5V<sub>DC</sub> power supply, USA power cord included

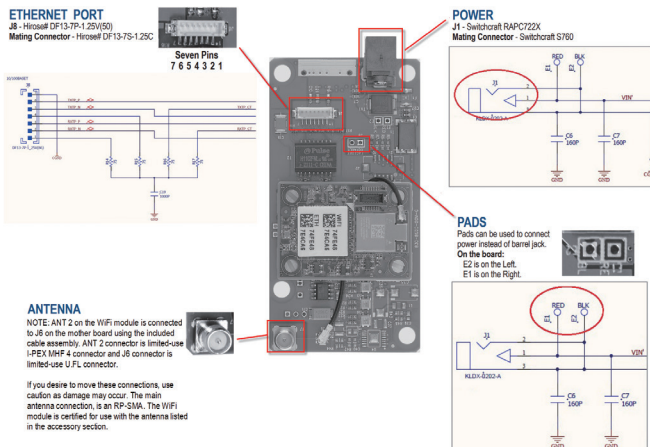
### Introduction

ABDNA Enterprise Wi-Fi boards are built for networking equipment in an array of machine to machine (M2M) applications. The small compact form factor makes it easy and cost-effective to integrate into your solution.

### Specifications

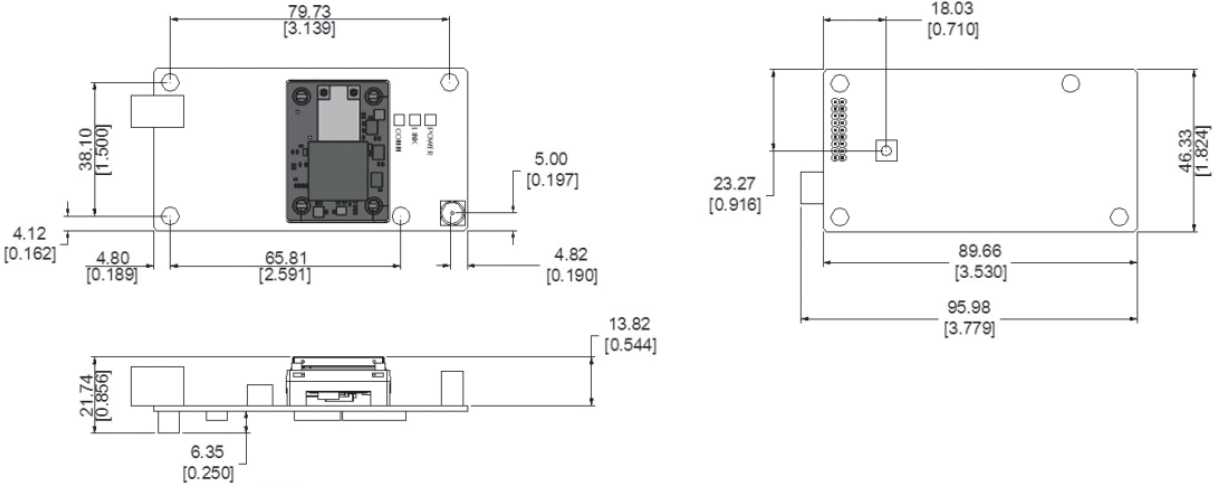
| Ethernet Communications     |  |
|-----------------------------|--|
| Speed                       | 10/100 Ethernet Port – Bridge, Router (NAT3) Modes   |
| Wireless LAN Communications |  |
| Compatibility               | IEEE 802.11a/b/g/n, Wi-Fi compliant  |
| Antenna                     | Integrated RP-SMA Omni-directional 2dBi 2.4/5 GHz Antenna  |
| Network Access Modes        | Infrastructure (Client)  |
| Security Protocols          | Disabled, WEP 64 & 128-bit, WPA (TKIP), WPA (AES), WPA2 (AES), 802.1x (EAP) Supplicant<br>802.11i, WPA & WPA2 Enterprise supplicants (EAP-TLS, EAP-TTLS(MSCHAPv2), EAPTTLS (MDS5), EAP-PEAPv0 (MSCHAPv2, LEAP), EAP-FAST, LEAP)<br>Supports Certificates and Private Key Upload and Storage (multiple) |

| 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: 15dBm +- 1.5dB<br>11g: 15dBm +- 1.5dB<br>11n BW20: 15dBm +- 1.5dB<br>11n BW40: 14.5dBm +- 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                  |
| LED Indicators        | 3 LED Indicators (Power, LINK, COMM)   |
| Power Requirements    |  |
| Power Supply          | 5.0V DC (included)   |
| Environment           |  |
| Operating Temperature | -20 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 [in]



**Order Information**

| Model Number   | Description            | Ethernet Connector | Powering                      |
|----------------|------------------------|--------------------|-------------------------------|
| ABDNA-ER-DP553 | Ethernet Bridge/Router | RJ45               | 5V <sub>dc</sub> power supply |

\* Included with product:  
 BB-PS-SDS - 5Vdc, 3A, 15W Power Supply with US power cord  
 BB-ACH0-CA-DP003-G – Ethernet Cable, RJ-45 to Hirose Connector  
 BB-ACH2-DBAT-DP002 – 2 DBi, 2.4/5 GHz antenna, rubber duck, RP-SMA