

Quick Start Guide Airborne™ Evaluation kit WLNN-EK-DP55x

Revision 3

February 2014

Part Number: 710-10086-01

Kit Contents:

Upon receiving the kit please check that you received the following:

- One Airborne™ Enterprise Module Evaluation Circuit Board Assembly (EVB)
- One Airborne™ WLNN-EK-DP551 module (mounted to EVB)
- 5VDC Power Supply (2.1mm barrel jack)
- Two 2dBi, 2.4GHz/5Ghz 50 ohm, omni-directional antenna
- DB9-to-DB9 Serial Cable (Null Modem)
- USB to Serial Adapter (232USB9M-LS)
- CAT5 Ethernet Cable
- Quick Start Guide
- Airborne™ software and documentation CD

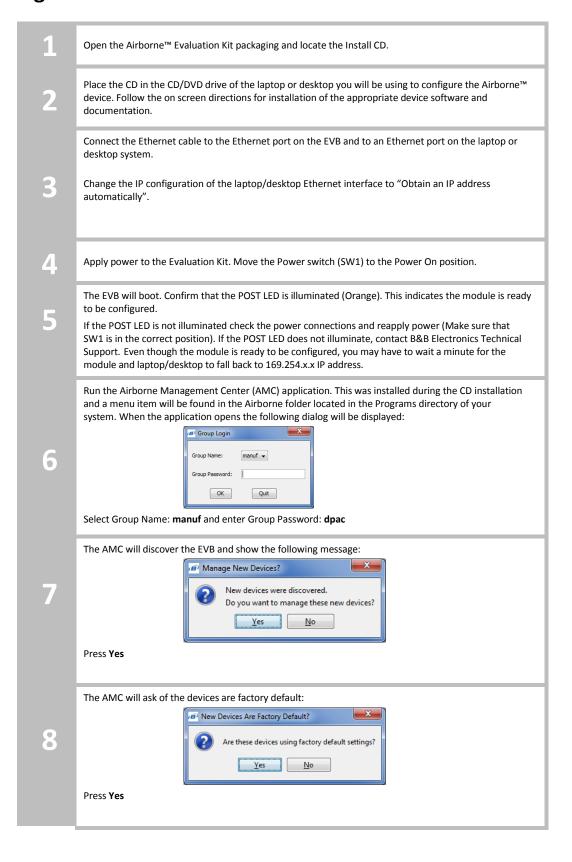
If any of the above contents are missing or appear to be damaged please contact B&B Electronics Sales support directly at **(888) 948-2248** or support@bb-elec.com.

What you will need:

To evaluate the unit you will need the following components and facilities:

- EVB unit with included antenna attached.
- Laptop or desktop system with an Ethernet port.
- Power outlet for power supply.
- 802.11b/g/n or 802.11a/n network for testing the unit, either AdHoc or Infrastructure (Access Points) mode. The test network configuration must be known. Required information will include:
 - SSID (Wireless network name).
 - Security settings (WEP, WPA, WPA2, etc.).
 - $\circ \qquad \text{Security credentials (passphrase, key or certificates)}.$
 - o Static IP address, Subnet Mask and Gateway address if static IP addresses are used on the test network.
- A web browser on the laptop top or desktop (Internet Explorer, Firefox, Opera and Chrome v4.0 are supported).

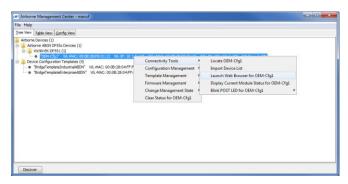
Getting Started:



The device's status will move to managed and the device will be displayed under the device type/group it belongs to.

Right click the device and then:

- 1. Select Connectivity Tools
- 2. Select Launch Web Browser for OEM-Cfg1



Selecting device personality:

The EVB is shipped with the Airborne unit configured as a Serial Device server. You can change the device functionality by selecting an appropriate personality, committing the change and restarting the unit.

To change the personality:

1. Select the **Maintenance** link in the top menu bar.

2. Select the **Change Module Personality** link in the left-hand menu.

3. Select the appropriate device personality (See Device Personality section)

4. Press Commit

5. Press **Restart**

The device will restart and the new personality will be active when the restart cycle has completed.

11

10

Refer to the section below for further information on device personalities, device configuration and set-up.

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Device Personality

The Airborne™ EVB can support all device personalities available within the Quatech product line. A device personality is a specific configuration of the Airborne™ device which performs a certain function. Examples include Ethernet Router, Serial Device Server, SPI Device Server, etc. The EVB is shipped with the default personality set as an Industrial Serial server.

Changing the personality to match your application is the first thing you should do when working with the EVB. It is important to select the appropriate personality. The following table outlines the personalities and their specific functionality:

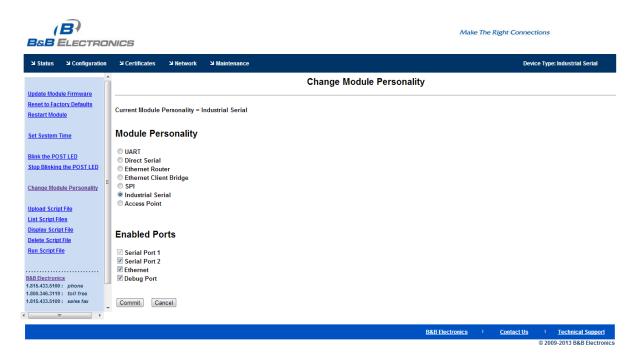
Personality	Description	Related Product
UART	Serial device server with LVTTL I/O. Support dual UART, debug port, single Ethernet, 802.11a/b/g/n. Ethernet interface is a client.	WLNN-AN-DP55X
Direct Serial	Serial device server with control signals to support external RS232/422/485 drivers. Support dual serial ports, debug port, single Ethernet, and 802.11a/b/g/n.	WLNN-SE-DP55X
Ethernet Router	Ethernet NAT3 router. Built-in DHCP server on Ethernet port supports multiple Ethernet Clients on the Ethernet interface. Includes rule based Firewall and Port Forwarding. Ethernet interface is set as a router. Suitable for applications where there are multiple Ethernet clients on the Ethernet network. Also supports dual UARTs, debug port and 802.11a/b/g/n.	ABDN-ER-DP55X ABDN-ER-IN501X WLNN-ER-DP55X
Ethernet Client Bridge	Ethernet bridge designed to connect wireless (802.11a/b/g/n) to an existing Ethernet port. Suitable for applications where there is a single Ethernet client to be connected to a wireless network. Also supports dual UARTs and debug port.	ABDN-ER-DP55X ABDN-ER-IN501X WLNN-ER-DP55X These units can easily be converted to bridge mode using AMC templates.
SPI	High speed SPI device server. SPI slave device. Also supports single UART, debug port and 802.11a/b/g/n.	WLNN-SP-DP55X
Industrial Serial	Serial device server with control signals to support external RS232/422/485 drivers. Support dual serial ports, debug port, single Ethernet and 802.11a/b/g/n. Similar to the Direct Serial but has the Ethernet interface enabled as an Ethernet client device.	ABDN-SE-IN542X ABDN-SE-IN541X
Industrial Ethernet	Ethernet NAT3 router. Built-in DHCP server on Ethernet port supports multiple Ethernet Clients on the Ethernet interface. Includes rule based Firewall and Port Forwarding. Also supports dual UARTs, debug port and 802.11a/b/g/n.	ABDN-ER-IN501X
Industrial Access Point	802.11a/b/g/n Access Point with an Ethernet port, that supports both bridge and router modes, and up to two serial ports which are compatible with RS232/422/485 devices.	APXN-Q5xxx

4

The **Change Module Personality** web page displays the available device personalities. The **Change Module Personality** page can be seen in Figure 1.

After selecting the appropriate personality you must press the Commit button and Restart the module to save and apply the change.

Figure 1 – Change Module Personality Setup Page





 The web interface is context sensitive. Not all of the fields will be visible without a context change.



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