

## AirborneDirect™ Serial 802.11b Wireless LAN-to-Serial Bridge ABDB-SE-DP101

### Introduction

AirborneDirect™ is a family of fully integrated 802.11b wireless LAN bridge products designed specifically to provide wireless LAN and Internet connectivity to industrial, scientific, medical and automotive applications.

The highly integrated hardware and software enables plug-and-play capability. This significantly reduces the complexity of wireless system deployment and network connectivity. Integrating AirborneDirect™ with existing OEM platforms can significantly enhance the product's value and functionality giving the OEM a competitive advantage.

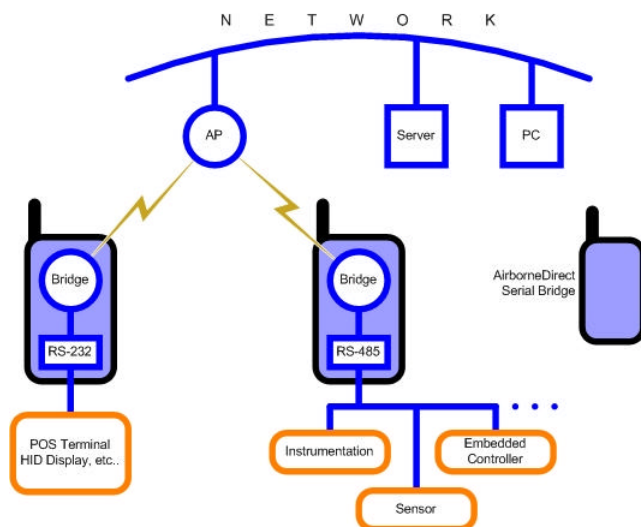
### Application

The AirborneDirect™ Serial Bridge creates a connection between an 802.11b wireless LAN device with a Serial port. The Bridge transparently conveys data between the device with RS232, RS422 or RS485 interface and a wireless LAN. The Bridge opens up the world of remote device monitoring and management, enabling data loggers, medical and industrial monitors, data acquisition and control systems, programmable controllers and a host of other applications connectivity to the LAN or Internet.

The DPAC Evaluation Kit provides software and utilities that allow a developer to quickly and easily operate and evaluate the Bridge.



- Plug-and-Play LAN and Internet Connectivity
- OEM / VAR solution
- Integrated Serial Cable and DB9 (Male DTE) Connector
- Software-Configurable 802.11b Interface
- Compact Package Outline
- Integrated External Antenna
- Built-in Web Server
- Advanced utilities for discovery, configuration and management of AirborneDirect Serial™ device
- AirborneDirect Serial™ Evaluation Kit, tools and utilities available



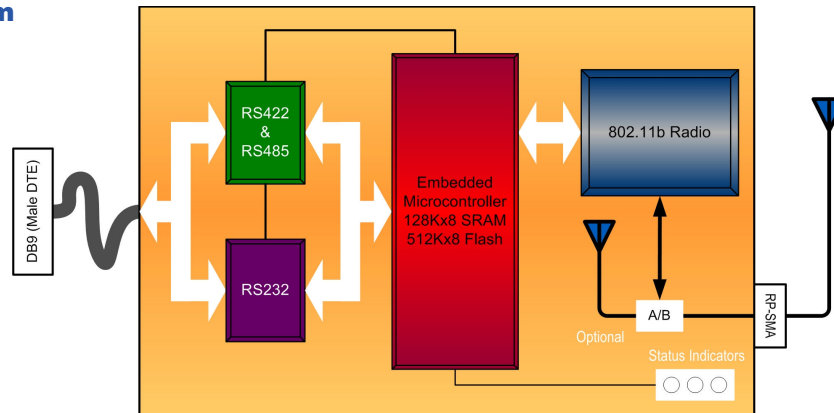
**Contact DPAC Today!**

**1-800-642-4477**

wireless@dpactech.com

[http://www.dpactech.com/wireless\\_dsp.asp](http://www.dpactech.com/wireless_dsp.asp)

**Block Diagram**



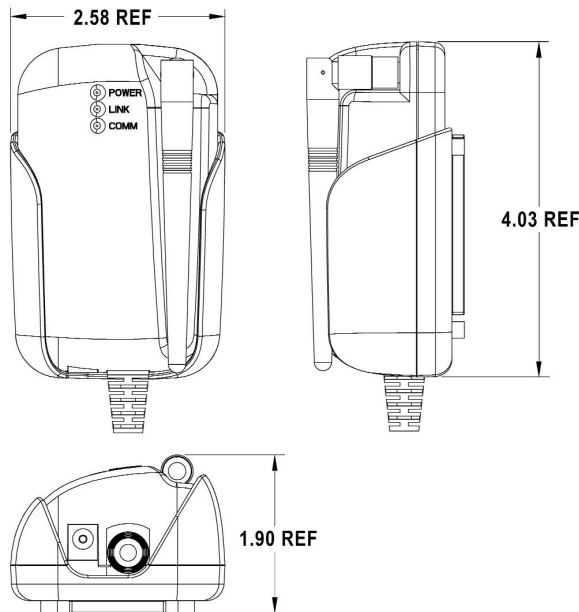
**Package Contents**

OEM / VAR (Model: ABDB-SE-DP101)	AirborneDirect™ Serial Bridge Omni-directional Wand Antenna Power Supply Mounting Bracket
Evaluation Kit (Model: ABEB-SE-DP101)	AirborneDirect™ Serial Bridge Omni-directional Wand Antenna Power Supply Mounting Bracket 802.11b Compatible Access Point Hardware & Software Users Manual VCOM Driver and Configuration Utility Quick Start Guide Installation CD

**Specifications**

Serial Interface	RS232, RS422 or RS485 (2-wire)
Wireless Network Interface	IEEE 802.11b DSSS, WiFi Compliant
Frequency	2.4 ~ 2.4835 GHz (US, Europe, Canada, Japan) 2.471 ~ 2.497 GHz (Japan)
Channels	11 US/Canada 13 Europe 14 Japan 4 France
Wireless Raw Data Rates	11Mbps, 5.5Mbps, 2Mbps, 1Mbps
RF Power	+18dBi (typical)
Security	WEP standard encryption, 64/128 bit Key Mapped WEP Access control
Antenna	Integrated Omni-directional Wand Antenna
Protocols	TCP/IP, ARP, ICMP, DHCP, DNS, HTTP, UDAP Discovery
Data Transfer Protocols	TCP/IP, HTTP
Status Indicators	Power, Link, Comm
Power Input	110/240VAC to 5VDC external power supply (wall wart)
Power Consumption	2W max (AC Adapter)
Power Supply Connector	2.1 mm Barrel Jack
Software Configuration	Web page based configuration interface
Web Server	Built-in Web Server capable of serving dynamic web pages with embedded JavaScript.
Management	Device Discovery and Configuration, Remote Firmware Upgrade Utility
OS Compatibility	AirborneDirect™ - Win9x/ME/NT/2000/XP Airborne VCOM - Win2000/XP
Agency Approvals	U.S. = FCC Part 15 Class B, C/UL, CE (Pending) Europe = CE (Pending)
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +125°C
Dimensions (without mounting bracket)	99.8mm L x 60.5mm W x 36.1mm T (3.93 in. x 2.38 in. x 1.42 in.)
Enclosure	Nylon - Gray

**Mechanical Outline**



DPAC Technologies Products & Services for the integration Age  
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