

AirborneDirect™ Wireless Device Server Serial to 802.11b Wireless LAN (external)

ABDB-SE-DP100 series

ABDB-SE-DP500 Enterprise series



Highly integrated with extended operating temps

AirborneDirect™ is a family of fully integrated 802.11 wireless LAN device server products designed to provide wireless LAN and Internet connectivity to transportation, medical, warehouse logistics, POS, industrial, military and scientific applications.

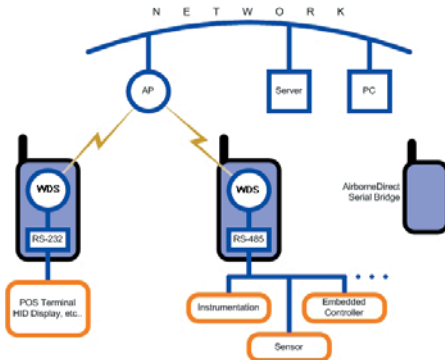
The highly integrated hardware and software enables plug-and-play capability. This significantly reduces the complexity of wireless system deployment and network connectivity. Integrating AirborneDirect™ with existing OEM platforms can significantly enhance the product's value and functionality giving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

Application

The AirborneDirect™ Wireless Device Server creates a connection between an 802.11 wireless LAN device with a serial port. The unit transparently conveys data between the device with RS-232, RS-422 or RS-485 interface and a wireless LAN. It 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.

For industrial grade yet low cost plug-and-play 802.11b wireless LAN connectivity, AirborneDirect is in a class of its own. Its industrial grade design (extended operating temperatures and environmental specifications), advanced security standards such as WEP, WPA and LEAP, compact form factor and low power modes - as well as the five year warranty - give AirborneDirect the reliability and performance demanded in a wide range of applications.

The Evaluation & Design Kit provides software and utilities that allow a developer to quickly and easily operate and evaluate the Wireless Device Server.



KEY FEATURES

- Extended operating temperature range (-40°C to +85°C) and environmental specifications
- Advanced security: WEP (64 & 128 bit), WPA and 802.1x (LEAP) authentication
- Low power modes
- Built-in web server enables drop-in LAN and Internet connectivity
- Highly integrated 802.11b/g wireless module with radio, base-band & application processor
- Quick time to market & reduced development costs
- Configurable serial, digital & analog I/O ports
- Integrated RTOS, TCP/IP Stack and CLI
- FCC Part 15 Class B Sub C Modular Approval
- Reduces need for RF and communications expertise
- Five year warranty

Model Selection Guide

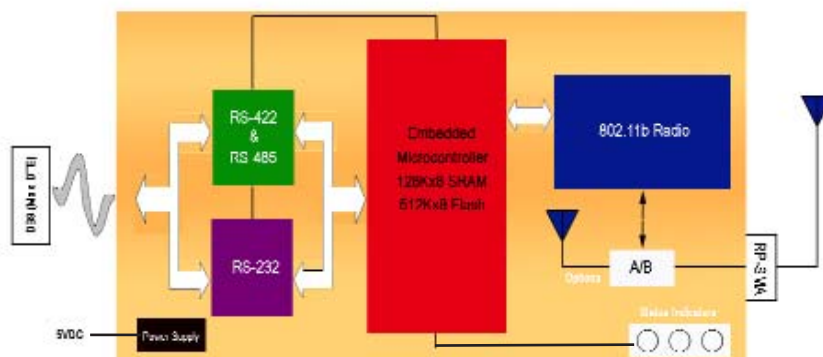
Model No.	Interface			WiFi	Security		
	RS-232	RS-422/485	POC (power over cable)		WEP (64 & 128 bit)	WPA	LEAP*
ABDB-SE-DP101	●	●		●	●	●	
ABDB-SE-DP104	●			●	●	●	
ABDB-SE-DP107	●		●	●	●	●	
ABDB-SE-WA107	●		●	●	●	●	
ABDB-SE-DP501	●	●		●	●	●	●
To evaluate all available features and receive evaluation tools, order below.							
ABEB-SE-DP101	Evaluation & Design Kit, includes Wireless Access Point						
ABEB-SE-DP102	Evaluation & Design Kit, does not include Wireless Access Point						



For RoHS-compliant 802.11b products, add "G" at end of model number.

* Web server not present with LEAP

Block Diagram



Package Contents

Model No.	Package Includes:
ABDB-SE-DP101 ABDB-SE-DP104 ABDB-SE-DP107 ABDB-SE-DP501	AirborneDirect™ Wireless Device Server Omni-directional Wand Antenna Power Supply Mounting Bracket
<u>Evaluation & Design Kit</u> ABEB-SE-DP101 ABEB-SE-DP102 (does not include Access Point)	AirborneDirect™ Wireless Device Server 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	RS-232, RS-422 or RS-485 (2 wire)
Wireless Network Interface	IEEE 802.11b DSSS, WiFi Compliant
BAUD Rates	Up to 460.8 Kbps
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 (64 & 128 bit), WPA (PSK & TKIP), WPA with LEAP
Antenna	Integrated Omni-directional RP-SMA +3dBi antenna
Protocols	TCP/IP, ARP, ICMP, DHCP, DNS, HTTP, UDAP Discovery, UDP
Data Transfer Protocols	TCP/IP, HTTP
Status Indicators	Power, Link, Comm
Power Input	110/240VAC to 5VDC external power supply (wall wart)
Power Consumption	2.5W max (AC Adapter)
Power Supply Connector	2.1mm Barrel Jack
Software Configuration	Web page-based configuration interface, Command Line Interface
Web Server	Built-in Web Server capable of serving dynamic web pages with embedded JavaScript
Management	Device Discovery, Configuration and Remote Firmware Upgrade
OS Compatibility	Airborne Evaluation Utility - Win9x/ME/NT/2000/XP Airborne VCOM - Win2000/XP
Agency Approvals	U.S. = FCC Part 15 Class B, C/UL, CE Europe = CE Canada = RSS-210
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +125°C
Dimensions (without mounting bracket)	99.78mm 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

