



AirborneDirect™ Wireless Device Server Serial to Wireless LAN



- ABSE-100D (1 port RS-232)
- ABSE-100D-POC (1 port RS-232) with Power Over Cable
- ABSE-400D (1 port RS-232/422/485)
- ABSE-400D-LEAP (1 port RS-232/422/485 with LEAP Security)



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.

The 400D model is the RS-232/422/485 version, the 100D model is RS-232 only, and the 100D-POC is RS-232 and powered through the serial cable from the host device.

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.

For OEMs with large installed bases of legacy serial equipment, or for system integrators looking for an easy - and inexpensive - way to network a wide range of equipment, AirborneDirect is the ideal choice.

KEY FEATURES

- Extended operating temperatures (-40°C to +85°C) and environmental specifications
- Advanced security: WEP (64 & 128 bit), WPA and 802.1x (LEAP) authentication
- Low power modes
- Plug-and-Play LAN and Internet Connectivity
- Compact Package Outline
- Integrated External Antenna
- Integrated Serial Cable and DB9 (Male DTE) Connector
- Software-Configurable 802.11b Interface
- Built-in Web Server
- Advanced utilities for discovery, configuration and management of AirborneDirect Serial™ device
- North American & European regulatory approvals (FCC, CE, IOC)
- RoHS compliant
- 5 year warranty

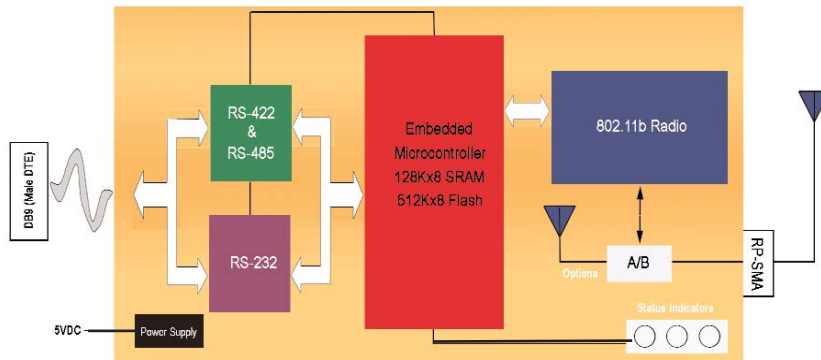
Contact Quatech today!
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Model Selection Guide

Model No.	Interface			WiFi	Security		
	RS-232	RS-422/485	POC (power over cable)	802.11b	WEP (64 & 128 bit)	WPA	LEAP*
ABSE-100D	●			●	●	●	
ABSE-400D	●	●		●	●	●	
ABSE-100D-POC	●		●	●	●	●	
ABSE-400D-LEAP	●	●		●	●	●	●

* Web server not present with LEAP

Block Diagram



Package Contents

Model No.	Package Includes:
ABSE-100D	AirborneDirect™ Wireless Device Server
ABSE-100D-POC	Omni-directional Wand Antenna
ABSE-400D	Power Supply
ABSE-400D-LEAP	Mounting Bracket

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 RoHS and WEEE compliant
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

