

Airborne Enterprise Wireless Ethernet Bridge Ethernet to 802.11b/g Wireless LAN (external)

ABDG-ET-DP100 Enterprise Series



Highly integrated, plug and play

Airborne is a family of fully integrated 802.11 wireless LAN bridge 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 Airborne with existing OEM platforms can significantly enhance the product's value and functionality giving the OEM a competitive advantage.

Application

The Airborne Enterprise Ethernet Bridge creates a connection between an 802.11b/g wireless LAN device with a Ethernet port. The Bridge transparently conveys data between the device with a 10 BaseT interface and a wireless LAN. The Bridge opens up the world of remote

device monitoring and management, enabling many applications the ability to connect to the LAN or Internet. For example:

- data loggers
- medical and industrial monitors
- data acquisition and control systems
- programmable controllers

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

KEY FEATURES

- Extended operating temperatures (-40° to +85°C) and environmental specifications
- Advanced security: WEP (64 & 128 bit), WPA and 802.1x (LEAP) authentication
- Plug-and-Play LAN and Internet Connectivity
- Compact Package Outline
- Integrated External Antenna
- Integrated Ethernet Cable and RJ-45 (Male) Connector
- Software-configurable 802.11b/g Interface
- Advanced utilities for discovery, configuration and management of Airborne Ethernet device
- North American and European regulatory approvals (FCC, CE, IOC)
- 5 year warranty

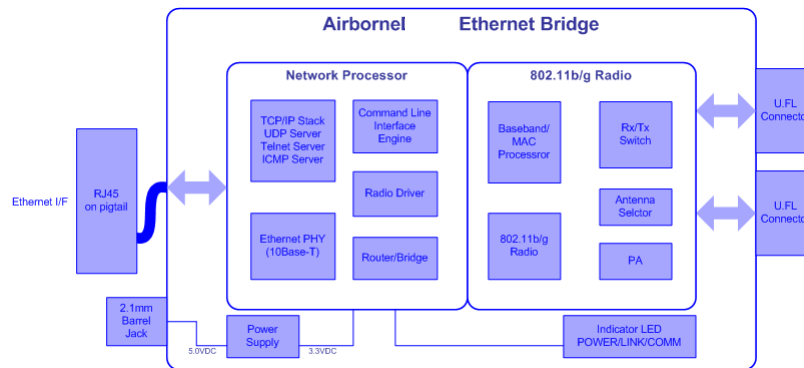
Model Selection Guide

Model No.	Interface	WiFi	Security		
	10 Base-T Ethernet	802.11b/g	WEP (64 & 128 bit)	WPA	LEAP
ABDG-ET-DP101	●	●	●	●	●
ABDG-ET-DP102	●	●	●	●	●
To evaluate all available features and receive evaluation tools, order below.					
ABEG-ET-DP101	Evaluation & Design Kit				
ABEG-ET-DP102	Evaluation & Design Kit				



All Quatech 802.11b/g products are RoHS compliant

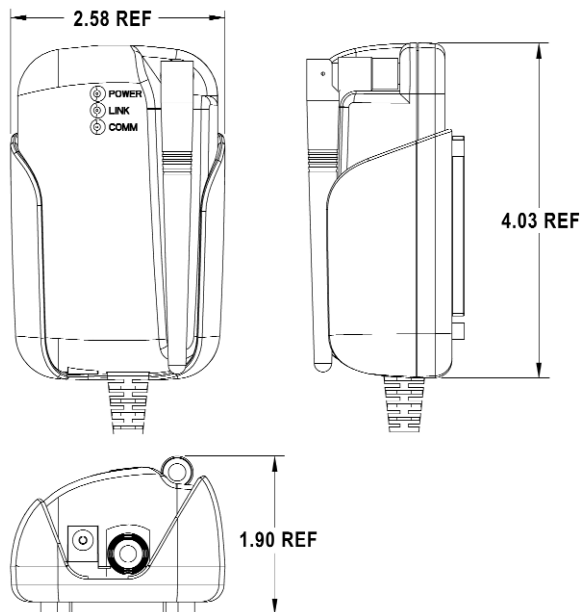
Block Diagram



Package Contents

Model No.	Package Includes:
ABDG-ET-DP101	Airborne Enterprise Ethernet Bridge Omni-directional Wand Antenna Power Supply Mounting Bracket
<u>Evaluation & Design Kit</u> ABEG-ET-DP101 ABEG-ET-DP102	Airborne Enterprise Ethernet Bridge Omni-directional Wand Antenna Power Supply Mounting Bracket 802.11b/g Compatible Access Point Hardware & Software Users Manual Quick Start Guide Installation CD

Mechanical Outline



Specifications

Technology	IEEE 802.11b/g, WiFi compliant (802.11i, 802.11e, 802.11d capable)
Ethernet Interface	10 Base-T, RJ-45 Male with pigtail
Data Throughput	
Frequency	2.400 ~ 2.4835 GHz (US/Can/Europe) 2.400 ~ 2.497 GHz (Japan)
Modulation Technology	DSS, CCK, OFDM
Modulation Type	DBPSK, DQPSK, CCK, BPSK, QPSK, 16QAM, 64QAM
Network Access Modes	Ad-hoc, Infrastructure
Channels	USA/Canada: 11 channels (1 - 11) Europe: 13 channels (1 - 13) Japan: 14 channels (1 - 13 for g rates) (1 - 14 for b rates) France: 4 channels (10 - 13)
Wireless Data Rate	802.11b mode: 11, 5.5, 2, 1 Mbps 802.11g mode: 54, 48, 36, 24, 18, 12, 9, 6 Mbps
MAC	CSMA/CA with ACK, RTS, CTS
Protocols	TCP/IP, ARP, ICMP, DHCP, DNS, UDAP Discovery
Data Transfer	TCP/IP, TFTP, UDP
RF Power	+19.3 dBm (typical) Approx. 85 mW peak for B rates +15 dBm (typical) Approx. 32 mW average for B rates +21.5 dBm (typical) Approx. 143 mW peak for G rates +12 dBm (typical) Approx. 16 mW average for G rates
Sensitivity	-71dBm for 54Mbps -77dBm for 36Mbps -83dBm for 18 Mbps -85dBm for 11Mbps -87dBm for 1Mbps
Security	WEP 64 and 128bit (RC4), WPA (TKIP), 802.1x (LEAP)
Antenna	Integrated RP-SMA Omni-directional 3dBi Antenna
Supply	5.0VDC +/-5%, 500mA
Power Consumption	2.5W @ 5VDC
Power Connector	2.1mm Barrel Jack
Operating Temperature	-40°C - +85°C
Storage Temperature	-40°C - +125°C
Connector	36 Pin (Hirose DF12-36DS-0.5 V) 4-mm height
Enclosure	Nylon (Gray)
Agency Approvals	FCC Part 15 Class B Sub C Intentional CE ETSI EN300 328, EN301 489, ETSI 60950-1 IC RSS210 RoHS and WEEE compliant

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[B&B Electronics:](#)

[ABEG-ET-DP102](#)