

阅读申明

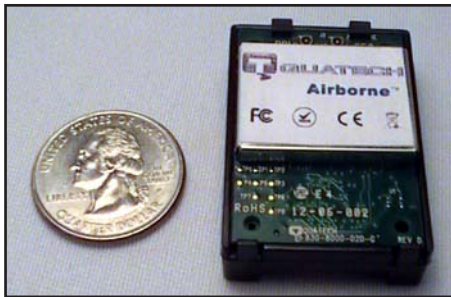
- 1.本站收集的数据手册和产品资料都来自互联网，版权归原作者所有。如读者和版权方有任何异议请及时告之，我们将妥善解决。
- 2.本站提供的中文数据手册是英文数据手册的中文翻译，其目的是协助用户阅读，该译文无法自动跟随原稿更新，同时也可能存在翻译上的不当。建议读者以英文原稿为参考以便获得更精准的信息。
- 3.本站提供的产品资料，来自厂商的技术支持或者使用者的心得体会等，其内容可能存在描述上的差异，建议读者做出适当判断。
- 4.如需与我们联系，请发邮件到marketing@iczoom.com，主题请标有“数据手册”字样。

Read Statement

1. The datasheets and other product information on the site are all from network reference or other public materials, and the copyright belongs to the original author and original published source. If readers and copyright owners have any objections, please contact us and we will deal with it in a timely manner.
2. The Chinese datasheets provided on the website is a Chinese translation of the English datasheets. Its purpose is for reader's learning exchange only and do not involve commercial purposes. The translation cannot be automatically updated with the original manuscript, and there may also be improper translations. Readers are advised to use the English manuscript as a reference for more accurate information.
3. All product information provided on the website refer to solutions from manufacturers' technical support or users the contents may have differences in description, and readers are advised to take the original article as the standard.
4. If you have any questions, please contact us at marketing@iczoom.com and mark the subject with "Datasheets" .

Airborne™ Embedded Wireless Ethernet Bridge Module Ethernet to 802.11b/g Wireless LAN

WLNG-ET-DP100 Enterprise Series



using one of the available, easy to use management interfaces. The Airborne unit allows you to customize their settings to meet your application demands.

Applications

The Airborne modules have been designed and tested to provide Wireless LAN (WLAN) and Internet connectivity across the harshest of machine to machine environments including:

- transportation
- medical
- warehouse and logistics
- point-of-sale (POS)
- industrial automation
- military
- scientific research

Any system with an existing Ethernet port can be wirelessly enabled by connecting the Airborne Ethernet Bridge module directly to the output of its Ethernet PHY, maintaining current firmware and software while enhancing system functionality.

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

High performance device networking solutions

Airborne™ is a line of highly integrated 802.11 modules. The wireless ethernet bridge module includes a radio (which may be purchased separately), a base-band processor, an application processor and software for a “drop-in” web-enabled Wi-Fi solution. Since there’s no need to develop the software, or to develop the RF and communications expertise inhouse, OEMs can realize reduced product development costs and a quick time-to-market. This Airborne Wireless Ethernet Module provides instant LAN and Internet connectivity, and connects through a standard ethernet interface (other Airborne modules offer standard serial interfaces) to a wide variety of applications.

Simple configuration, advanced security

The extremely small footprint design makes Airborne easy to embed in both existing and new designs. Supporting advanced security modes, including WEP, WPA and LEAP, the module is interoperable with industry standard 802.11 Access Points and stations. Providing access to existing infrastructure that enables access to corporate WLANs, WANs and even the internet. The built-in TCP/IP stack and application software provide embedded devices with this level of connectivity, without requiring any software development - only simple configuration

KEY FEATURES

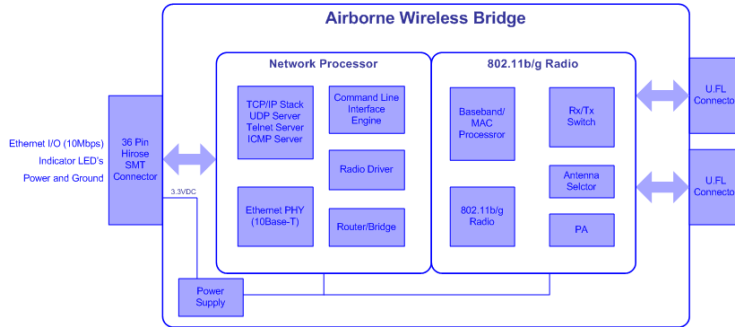
- Extended operating temperature range (-30°C to +85°C) and environmental specifications, including shock and vibration tolerance
- Advanced security: WEP (64 & 128 bit), WPA and 802.1x (LEAP) authentication
- Highly integrated transparent 802.11b/g Wireless Ethernet Bridge
- Quick time to market and reduced development costs
- Integrated 10 base-T Ethernet PHY
- Software-configurable 802.11b/g interface
- Integrated RTOS, TCP/IP Stack and CLI
- Reduces need for RF and communications expertise
- FCC Part 15 Class B Sub C Modular Approval
- 5 year warranty

Model Selection Guide

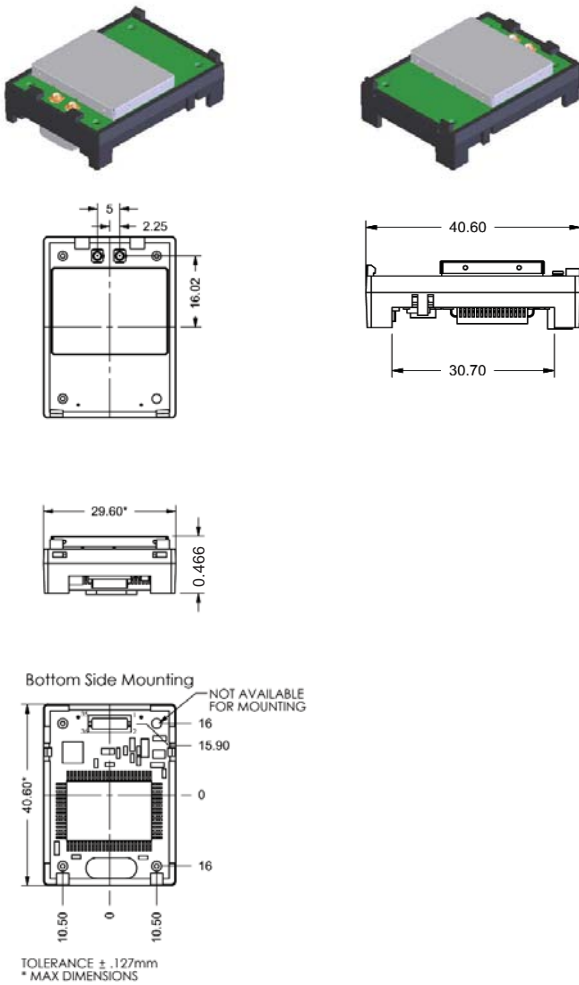
Model No.	Interface	WiFi	Security		
	10 Base-T Ethernet	802.11b/g	WEP (64 & 128 bit)	WPA	LEAP
WLNG-ET-DP101	●	●	●	●	●
To evaluate all available features and receive evaluation tools, order below.					
ABEG-ET-DP104	Evaluation & Design Kit				

All Quatech 802.11b/g products are RoHS-compliant.

Block Diagram



Mechanical Outline



Specifications

Technology	IEEE 802.11b/g, WiFi compliant (802.11i, 802.11e, 802.11d capable)
Ethernet Interface Data Throughput	10 Base-T (4Mbps data throughput max)
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 Data Transfer	TCP/IP, ARP, ICMP, DHCP, DNS, UDAP Discovery 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	Two U.F.L coaxial connectors, 50 ohms, supports receive diversity
Supply	3.3 Vdc +/-5%
Current Consumption	575mA - transmit mode (typical @ 54mb/s) 375mA - receive mode (typical @ 54mb/s)
Power Up Inrush-Current	3000 mA (MAX) 20ms
Operating Environment Temperature	Temperature: -30°C - +85°C Relative humidity: 5% - 95% (non-condensing) Vibration: 20G peak-to-peak, 20Hz - 2KHz Shock: 1500G peak-to-peak, 0.5mS
Connector	36 Pin (Hirose DF12-36DS-0.5 V) 4-mm height
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