

# AIRBORNE, WiFi SOLUTION 802.11b RADIO MODEM



AIRBORNE

- 802.11b wireless (WiFi)
- Great facility of integration
- LAN and Internet connectivity
- Integrated RTOS and TCP/IP Stack
- 64/128 bits Wep encryption

### Presentation:

Airborne™ is a line of highly integrated WiFi 802.11b wireless modules intended to be directly mounted on PCB.

The Airborne™ modules include a radio operating at 2.4 GHz, a base-band processor, an application processor and software for a “drop-in” web-enabled WiFi solution.

Airborne™ modules provide instant LAN and Internet connectivity without need for complementary radio or software developments.

They have several standard serial interfaces to be connected to a great number of industrial applications.

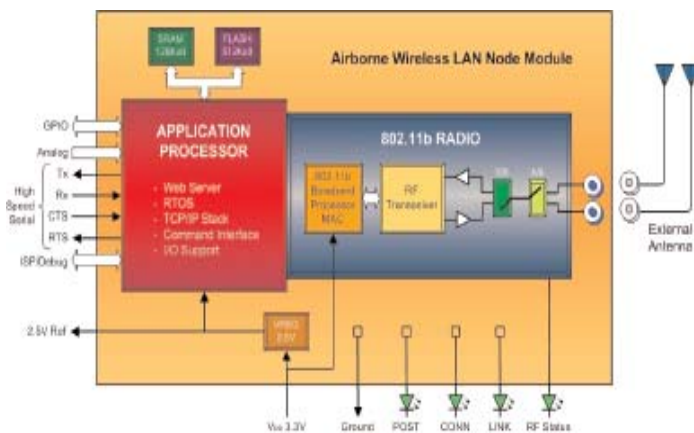
### Functions:

The extremely small footprint design makes Airborne™ easy to embed into new or existing designs.

The module is interoperable with industry standard 802.11b access points that provide a low cost infrastructure for connection to a LAN and to the Internet.

The built-in TCP/IP stack, RTOS and application software provide embedded devices with instant LAN and Internet connectivity without special programming of the module.

AIRBORNE 802.11b



Airborne™ modules present a simple HTML interface for their configuration.

An integrated web server makes it easy to remotely monitor and control any device using a standard browser.

Additionally, the Airborne™ modules can create custom web pages that deliver content from their application.

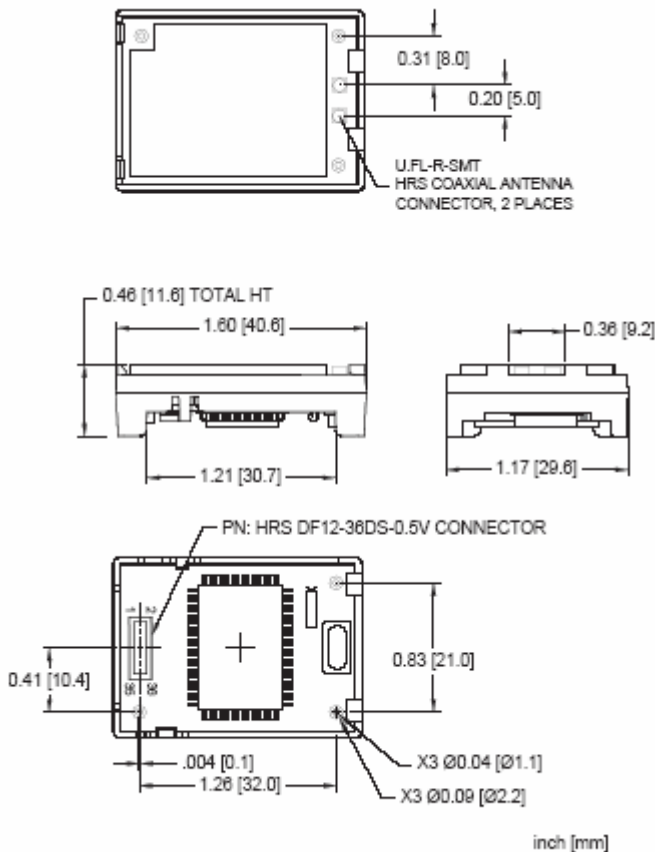
## Applications:

The Airborne™ modules have been designed specifically to provide wireless LAN and Internet connectivity in industrial, scientific, medical, automotive and other OEM applications.

Equipment with an embedded Airborne™ module can be monitored and controlled by a handheld device, by a PC in a central location or over the Internet. This eliminates cabling and allows the equipment to be moved.

Additionally, email or text messages can be sent out advising appropriate personnel of alarm conditions or status of equipment. The module is an excellent solution for remote sensing and data collection.

## SPECIFICATION CIRONET AIRBORNE™ 802.11b



Technology	IEEE 802.11b DSSS, WiFi
Frequency	2.4 to 2.4835 MHz
Modulation	DQPSK, DBPSK and CCK
Channels	France : 4 channels
Data rate	11, 5.5, 2, 1 Mbps
MAC	CSMA/CA with ACK, RTS, CTS
RF Power	+15 dBm (32mW)
Sensitivity	-82 dBm for 11Mbps -86 dBm for 5.5 Mbps -88 dBm for 2 Mbps -90 dBm for 1 Mbps
Security	WEP standard encryption, 64/128 bits
Supply	3.3 VDC
Current	420mA – Transmit mode 350 mA – Receive mode 75 mA – Sleep mode
Temperature	- 40 à + 85 °C
GPIO	Up to 8 digital I/O ports and Status
Serial	UART up to 230.4 Kbps I <sup>2</sup> C Master to 400 KHz SPI up to 20 MHz
Analog	Up to 8 channels, 10bit resolution
Connector	36 pins (PN: HRS DF12-36DS-0.5V)