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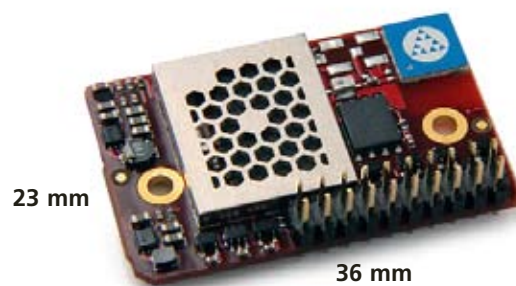
[ConnectBlue](#)
[CB-OWLAN211GI-02](#)

For any questions, you can email us directly:

sales@integrated-circuit.com



Wireless LAN



Product Brief OWLAN211g

The WIRELESS LAN MODULE™ from connectBlue has been developed for integration in industrial devices providing state of the art low power features. The software driver works as the interface between the TCP/IP stack in the device and the module. The module minimizes the work needed to implement Wireless LAN (IEEE 802.11b/g) in a device as it provides all hardware, type approval, EMC certification etc. It is developed for reliable, high demanding industrial devices and applications.

The Wireless LAN Module together with the driver software package makes a complete Wireless LAN implementation. The driver is available for Linux and may be adapted for any micro controller. The Wireless LAN module has the same form factor and interface layout as the Bluetooth modules from connectBlue, which enables customers to prepare their device for both Bluetooth and/or Wireless LAN.

Key Features

- Supports both 802.11b and 802.11g
- Software driver available or adaptable for any device.
- Bluetooth co-location with PTA (Packet Traffic Arbitration) support
- Radio type approved for Europe
- Radio type approved for US and Canada
- Compliant with EMC standards
- Industrial temperature range -30 to +85 C
- No host processor load
- Low power requirements
- Supports security features WEP64, WEP128, WPA, WPA2 (TKIP/AES)
- Quality of Service: 802.11e and WMM
- Ad-hoc and infrastructure mode
- Internal or dual external antennas (diversity supported)

Technical Data

SPECIFICATIONS

802.11 specification

Quality of Service: Supports 802.11e and WMM
 Security: Supports 802.11e & WPA/WPA2 (802.11i)
 Multidomain Capability: 802.11d

PHY/MAC

802.11b and 802.11g
 Extended rate protection
 Regulatory domain support
 Advanced power management
 Antenna Diversity
 Wake-on-Wireless
 Fast roaming
 WPS (WiFi Protected Setup)
 Dynamic Transmit Power Adaptation

Operational modes

BSS (infrastructure)
 IBSS (ad-hoc)

Security

WEP64
 WEP128
 WPA-EAP-TLS, WPA-PSK
 WPA2-EAP-TLS, WPA2-PSK
 TKIP
 CCMP (AES)

Quality of Service

802.11e
 WMM

Additional Features

Zero host load
 TX power calibration
 Link adaptation
 Fragmentation
 DTIM based power management
 Pre-authentication

Host Interfaces

SPI up to 60 MHz

Connector

20 pin header connector
 Board to board connector

Antennas

Internal or single and dual external (diversity)

Bluetooth co-location

Supports IEEE 802.15.2 Packet Traffic Arbitration (PTA)

Power

3.3-5.5 VDC
 Deep sleep mode: 0.2mA @ 3.6 VDC
 Sleep mode: 0.8 mA @ 3.6 VDC
 Active mode, TX: 170mA @ 3.6 VDC

Host reference driver

Linux 2.4/2.6

Dimensions

23 x 36 x 3.1 mm

Weight

3.6 g

Type Approval

R&TTE (Europe)
 FCC/CFR 47 part 15 unlicensed modular transmitter approval
 IC (Industrie Canada)

Environmental

Maximum operating temperature: -30 - +85 °C
 Storage temperature: -40 - +85°C
 Humidity RH 5-90% non-condensing
 Shock and vibration: IEC 61131-2

Certifications and Compliance

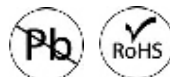
R&TTE Directive 1999/5/EC
 EN 300 328 V1.6.1 (2004-11)

EMC Directive: 89/336/EEC

EN 301 489-1 V1.4.1 (2002-08)
 EN 301 489-17 V1.2.1 (2002-08)
 EN 61000-6-2 (2001)

Safety Compliance

EN 60950-1:2001 and/or IEC 60950-1:2001 (1st Edition)
 EN 60950-1/A11:2004 + Corrigendum:2004



Order Number

cb-OWLAN211gi-02	OEM WLAN module Internal Antenna and Standard J1 Connector
cb-OWLAN211gi-04	OEM WLAN module Internal Antenna (no J1 Connector)
cb-OWLAN211gx-02	OEM WLAN module External Antenna and Standard J1 Connector
cb-OWLAN211gx-04	OEM WLAN module External Antenna (no J1 Connector)

Software Stack

