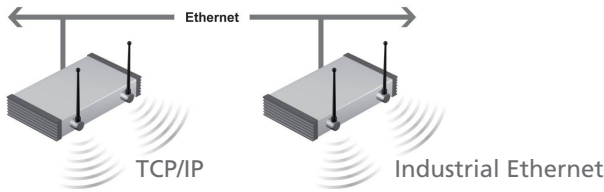


Beck IPC has integrated connectBlue's OWLAN211g module in their Wireless LAN WL01 Module. This module is controlled during configuration and during the runtime either by an application program via the C-API or by the user via the web interface.



Reference Application

Wireless LAN for tough industrial applications

Beck IPC GmbH is a German based company which offers customers solutions for industrial control technology and communication.

The increasing level of integration offered by Beck IPC control components, together with their ever decreasing space requirements, are outstanding features.

Wireless replaces Ethernet

Wireless modems typically need proprietary protocols instead of transparent TCP/IP communication. These protocols do not support TCP/IP services such as web server, FTP server or Telnet and therefore require additional protocol adaptations. In the Beck IPC WL01 WLAN module, on the other hand, these adaptations are implemented as standard.

Reliable and secure

Compared to Ethernet, Wireless LAN requires special measures to ensure reliable communication in all conditions. The WL01 WLAN module from Beck IPC offers the possibility of connecting 2 antennas (antenna diversity) and the roaming functionality when using several access points, thus providing the necessary technology for optimising the Wireless LAN application program.

Further, the necessary software drivers have already been adapted for use with the RTOS operating system of the Beck IPC@CHIP. Only application-specific adaptations have to be made where necessary.

"Beck IPC aims for customers to be able to concentrate entirely on their own product-specific requirements." says Alexander Burgbacher, Executive director of Beck IPC GmbH. "The connectBlue WLAN solution helps us to achieve this goal. It keeps the development effort and time to market of our customers' embedded Wireless LAN applications to a minimum. This saves cost and time, enabling our customers to reach markets more quickly."

WLAN requirements

For the WLAN connectivity, the connectBlue's OWLAN211g is implemented which gives the following features:

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



The wireless LAN OWLAN211g module from connectBlue supports 802.11b/g and has been developed for integration in industrial devices providing state of the art low power features. It can also be provided with external antennas as displayed in the picture.

About connectBlue

connectBlue is a leading provider of wireless solutions for demanding applications in segments like industrial automation, medical, instrumentation, diagnostics, logistics / transportation, vehicles and point of sales. Based on Bluetooth technology WLAN and 802.15.4, connectBlue provides ready-to-use products and modules as well as custom design solutions in both hardware and software. www.connectblue.com

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