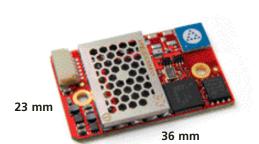
Wireless LAN



Product Brief OWSPA311g

The SERIAL WIRELESS LAN

MODULE[™] from connectBlue has
been developed for integration in
industrial devices providing state
of the art low power features.
The module minimizes the work
needed to implement Wireless LAN
(IEEE 802.11b/g) in a device as it
provides all software, hardware,
type approval, EMC certification
etc. It is developed for reliable,
high demanding industrial devices
and applications and requires no
host driver.

The Serial Wireless LAN Module is a complete Wireless LAN implementation. The Wireless LAN module has a small form factor and the interface layout is the same 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
- Radio type approved for Europe
- Radio type approved for US and Canada
- Compliant with EMC standards
- Industrial temperature range -30 to +85 C
- Exceptional low power modes
- Compatible with connectBlue Bluetooth modules
- Supports security features WEP64, WEP128, WPA-PSK, WPA2-PSK (TKIP/AES), LEAP
- Ad-hoc and infrastructure mode
- Internal or dual external antennas (diversity supported)
- UART speed up to 2.7Mbps
- Custom baud rate



Technical Data

SPECIFICATIONS

PHY/MAC

802.11b and 802.11g Extended rate protection Regulatory domain support Advanced power management Defragmentation Antenna diversity

Operational modes

BSS (infrastructure) IBSS (ad-hoc)

Security

WEP64 WEP128 WPA-PSK WPA2-PSK TKIP CCMP (AES) LEAP

Software

All software is included in the module Configurable locally or over Wireless LAN using AT commands or PC Wizard (Wizard included)

Protocols

TCP UDP

Additional Features

TX power calibration
Link adaptation
Advanced power management
DHCP-client
DNS-resolver
Roaming
Connect on data trigger

Serial interface

UART Logic-Level Supported baud-rates: 300 - 2.7Mbps Support for non-standard baud rates Flow control: CTS/RTS or none Full modem signalling

Connectors

Board-to-board connector Solder pads JST 6-pin connector (optional)

Antennas

Internal or single and dual external (diversity)

Power

3.3-5.5 VDC Transmitting at full speed: 130 mA @ 5 VDC Sleep mode (connected): 7.4 mA @ 5 VDC Stop mode (disconnected): 0.76 mA @ 5 VDC

Dimensions 23 x 36 x 3.1 mm

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Weight 3.8 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

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-OWSPA311gi-04 OEM Wireless LAN module Internal Antenna and

Standard Connectors

cB-OWSPA311gi-06 OEM Wireless LAN module Internal Antenna and

JST 6-pin connector

cB-OWSPA311gx-04 OEM Wireless LAN module External Antenna and

Standard Connectors

cB-OWSPA311gx-06 OEM Wireless LAN module External Antenna and

JST 6-pin connector

