







# Product Brief OEMSPA310

The OEM SERIAL PORT ADAPTER™
310 series is a Bluetooth class 2
module with a small form factor
and a low profile. It is optimized
for cost efficiency, but without
compromising functionality,
quality or compatibility with
other connectBlue Bluetooth and
Wireless LAN modules.

# **Key Features**

- Cost efficient
- Small in size
- Low profile
- Designed for high performance/throughput
- Configurable for short latency/delay
- AT Command support
- Wireless LAN co-existence support
- Configuration over Bluetooth
- Bluetooth Qualified as Product (Bluetooth version 2.0)
- Radio Type Approved for Europe, US and Canada
- Compliant with EMC, Safety and Medical standards
- Lead Free and RoHS compliant
- Only high quality components used
- Internal antenna
- Different mounting options
- Module can be soldered directly on to host PCB
- Industrial and Automotive temperature range -30 +85°C
- Individually tested and tuned in production
- Custom configuration possible





# Technical Data

#### **SPECIFICATIONS**

# **Bluetooth Support**

Bluetooth version 2.0 (Qualified and Listed as Product)
Supported Bluetooth Profiles:
Generic Access Profile (GAP)
Serial Port Profile (SPP)
Dial-up networking Profile (DUN GW, DUN DT)

Class 2 +3.5 dBm (up to 50 m)

# **Bluetooth Chipset and Stack**

Product based on Philips well known BGB203 chipset and Philips Embedded Stack

#### Software

All software is included in the module. Configurable locally or over Bluetooth using AT Commands or PC Wizard

# Serial Interface

UART Logic-Level Supported baud rates: 300 – 921.6k Support for non-standard baud rates Flow control: CTS/RTS or none

# **Power Supply**

3.0 - 6.0 VDC

#### **Current Consumption**

Min: 7.9 mA Average: 17 mA Max: 70 mA (Peak)

### Dimension/Size

16 x 36 x 2.4 mm



# Type Approval

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)

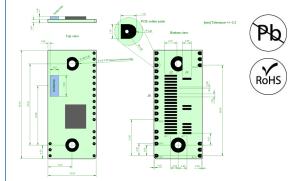
EMC Directive: 89/336/EEC EN 301 489-1 V1.4.1 (2002-08) EN 301 489-17 V1.2.1 (2002-08) EN 61000-6-2 (2001)

# Safety Compliance

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

# Medical Electrical Equipment

IEC 60601-1-2 (2001)



# **Order Number**

cB-OEMSPA310i-04

OEM Serial Port Adapter 310i Internal Antenna and Standard Connectors

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