

INDUSTRIAL BLUETOOTH™



## Product Brief Bluetooth I/O Developer's kit

The Bluetooth I/O Developer's kit is a complete starter kit to evaluate Bluetooth I/O functionality. The Bluetooth I/O Modules included in the kit implements wireless I/O functionality with up to 12 digital I/O signals. The I/O signals can be controlled by either a serial protocol or by remote I/O signals. Bluetooth I/O modules are available with a wide range of hardware options like internal / external antenna, long / short range, UART / RS232 interface and with different connector options.

### Key Features

- Complete kit with 2 evaluation boards and modules
- Preconfigured as a pair
- Compatible with OEMSPA310/311/331/312/332
- Evaluation boards with 12 input buttons and 12 output LEDs which are also externally available
- Very low latency (5-10 ms)
- Output / input data can be set / read by serial protocol
- Configurable sample period
- Configurable filter to prevent glitches
- RS232 and UART logic-level support
- AT Command 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
- Industrial and Automotive temperature range -30 - +85°C\*

\* Applies to Bluetooth module only, not development board

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# Technical Data

## SPECIFICATIONS

### Contents of kit

- 2x Development boards
- 2x Bluetooth modules (cB-OEMSPA312i-04)
- 2x USB power cables
- 1x Serial cable (9pin female Dsub - 9pin female Dsub)
- 1x CD with documentation and configuration toolbox

### I/O Development Board

- RS232 interface
- 5 VDC power interface
- 12 LEDs for outputs
- 12 buttons for inputs
- Reset button
- Restore serial settings button
- I/O signals available externally
- LED for module status
- Compatible with:
  - cB-OEMSPA310
  - cB-OEMSPA311/331
  - cB-OEMSPA312/332

### Power supply

- 5 VDC
- 2x USB cables for power included

### Bluetooth Module

- cB-OEMSPA312i-04
  - Short range version (7 dBm)
  - Internal antenna
  - UART/RS232 Interface
  - I/O firmware

### I/Os

- 12 digital I/Os
  - 5 with 3V voltage level
  - 7 with 1.8V voltage level
- Configurable sample period
- Configurable filter (to prevent glitches)
- I/O failsafe support

### Documentation

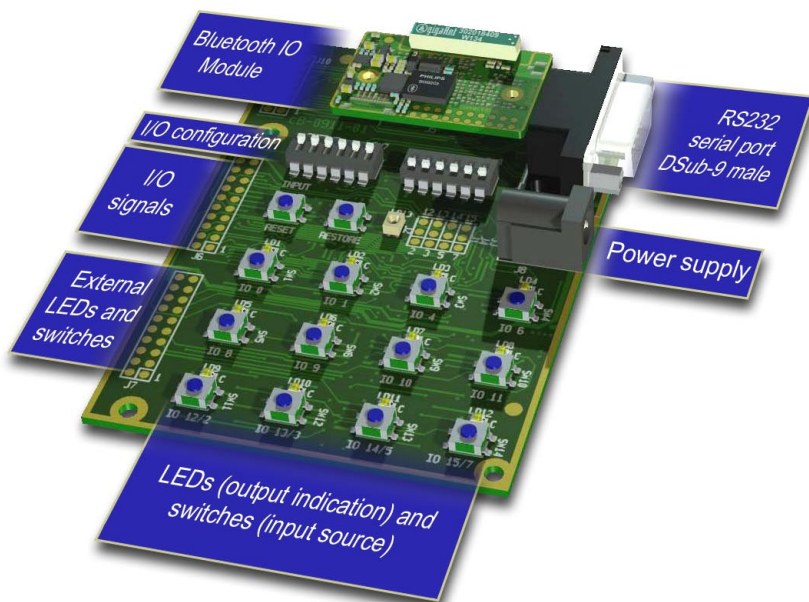
- Electrical & Mechanical Data Sheets
- AT Command Specification
- I/O Functional description & AT commands
- User guide

### Configuration

- Configuration software (Toolbox) for PC
- AT commands

### Dimension/Size

- Bluetooth module: 23 x 36 x 5 mm
- Development board: 70 x 100 x 18 mm



**Order Number**  
cB-BTIODK312i-01      Bluetooth I/O Development kit

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