CB-ACC-24 OEM RS232 MODULE ADAPTER III DATASHEET

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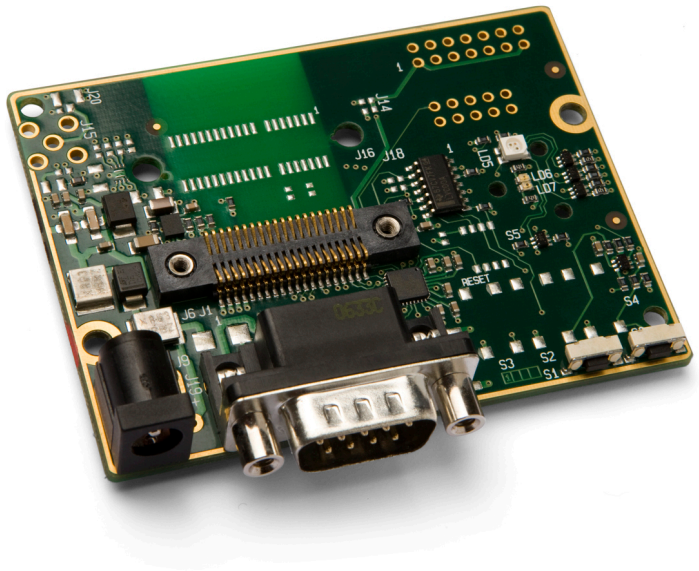
2 Abstract

The OEM Module Adapter III is a development tool designed for easy interfacing the OEM Serial Port Modules from connectBlue.



3 Key Features

The OEM Module Adapter III is used for simple interfacing, configuration and upgrading. It is compatible with most of the connectBlue Serial Port Modules covering Bluetooth technology, Wireless LAN and IEE 802.15.4/ZigBee.

The electrical interface of the OEM Serial Port Modules consists of a 2x30 1mm pad-area. To simplify interfacing and quickly get started, connectBlue has developed the OEM Module Adapter III. The Bluetooth, Wireless LAN or 802.15.4 stack and application is incorporated in the connectBlue module and therefore, no additional software is needed in the computer.

The OEM RS232 Module Adapter III consists of:

- Connector for connectBlue Serial Port Modules
- Male 9-pin D-Sub connector for the RS232 interface of the OEM Serial Port Modules
- 2.1 mm pin power connector
- Restore switch - switch used for restoring module settings

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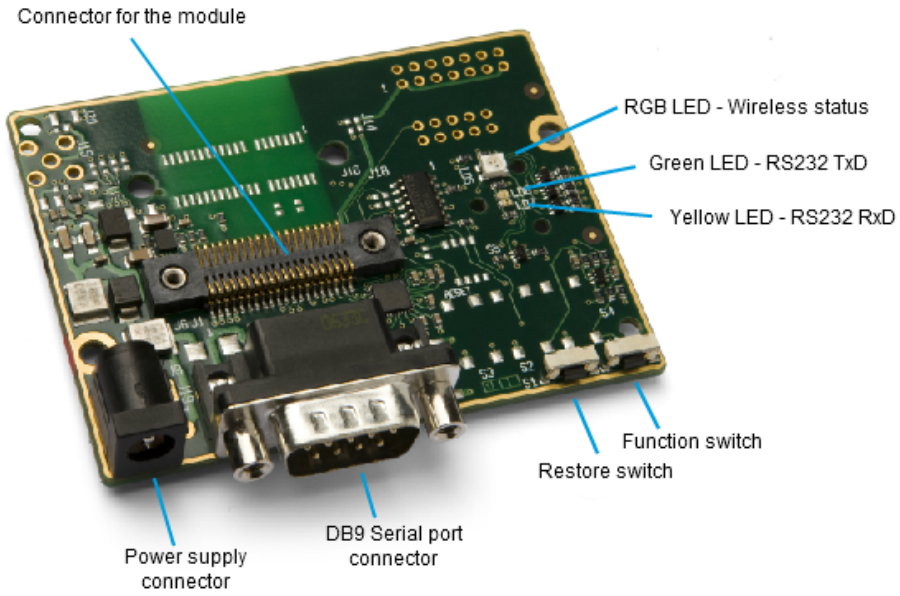
- Function switch - switch for function trigger, for example initiate connection
- RGB LED indicating module status
- LEDs indicating TxD and RxD data

For information about how to use and configure the module please see the module specific documentation at support.connectblue.com.



4 Technical Description

Power connector: 2.1mm center pin negative
Supply voltage: 5VDC

RS232 Serial port connector: DB9 male
The port is wired as a DTE (Data Terminal Equipment) device (a null cable is required for standard PC connection).

- Pin 1 - NC (not connected)
- Pin 2 - RD (receive data)
- Pin 3 - TD (transmit data)
- Pin 4 - DTR (data terminal ready)
- Pin 5 - GND (ground)
- Pin 6 - DSR (data set ready)
- Pin 7 - RTS (request to send)
- Pin 8 - CTS (clear to send)
- Pin 9 - NC (not connected)

Dimensions: 76x58 mm

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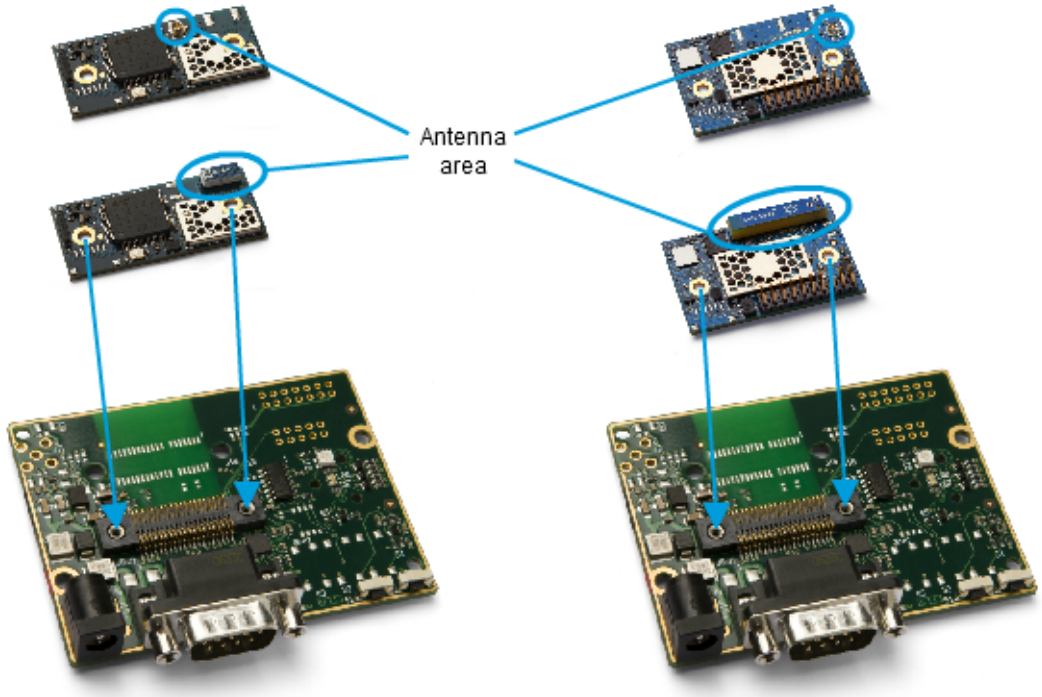
5 Compatible Modules

- Classic Bluetooth modules:
  - cB-OBS410
  - cB-OBS411
  - cB-OBS414
  - cB-OBS418
  - cB-OBS419
  - cB-OBS421
  - cB-OBS433
  - cB-OEMSPA310
  - cB-OEMSPA311
  - cB-OEMSPA331
  - cB-OEMSPA312
  - cB-OEMSPA332
  - cB-OEMSPA333
- Bluetooth low energy modules:
  - cB-OLS426
- Wireless LAN modules:
  - cB-OWSPA311g
- IEEE 802.15.4 modules:
  - cB-OZS311

6 Assembly Instructions

The OEM RS232 Module Adapter III is assembled together with a connectBlue OEM Serial Port Module via two M2 screws. During assembly, the wireless module shall be placed in the same direction as shown in the images below. The module should be installed such that the antenna or antenna connector is placed in the opposite direction of the power supply and RS232 connectors.

Below, the cB-OBS411i/x and the cB-OBS433i/x are used to show orientation; however, it is the same for all connectBlue modules.



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