



Bluetooth Enabler™ / OEM Bluetooth Enabler™

Start your Bluetooth development today...launch your product tomorrow!

By introducing the Bluetooth Enabler/OEM Bluetooth Enabler connectBlue has taken the effort out of Bluetooth product development. The Bluetooth Enabler/OEM Bluetooth Enabler has integrated support for a large number of Bluetooth profiles and Bluetooth functionality. The module is easily controlled using a simple high-level protocol. It is now possible to fully enable Bluetooth in a new or an existing product with no or very limited effort.

By using the Bluetooth Enabler/OEM Bluetooth Enabler and the development kit it is possible to enable Bluetooth in a new or existing product with very little effort. The following steps are needed to enable Bluetooth wireless technology in a product:

- Integrate the OEM Bluetooth Enabler into your product or connect the Bluetooth Enabler to your product. It connects easily to the host system either directly or via a ribbon cable to a standard 40-pin connector.
- Add the generic C-code for the ACI protocol to your product.
- Use the ACI protocol to configure the settings that your product requires and control the functionality of the module.

There is no need to spend time and money on:

- Implementing Bluetooth profiles and protocols
- Purchasing Bluetooth protocols stacks
- Developing Bluetooth hardware
- Performing international type approval for radiobased products
- Performing Bluetooth qualification
- Testing interoperability with other Bluetooth enabled products

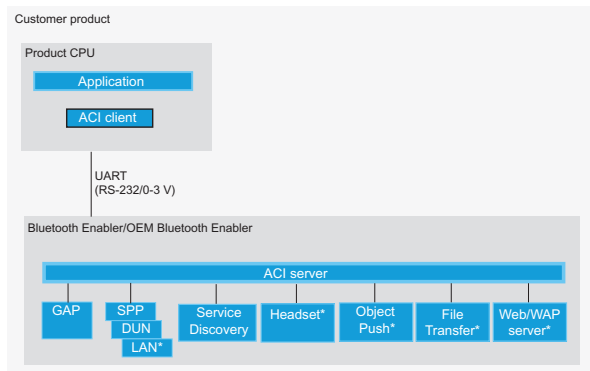
The host application communicates with the Bluetooth Enabler/OEM Bluetooth Enabler using a simple protocol called ACI. The ACI protocol contains commands that allow the host to configure and control the module, the profiles and the other Bluetooth functions that the module supports. To allow customers to quickly and easily use the ACI protocol, connectBlue has created a development kit for the Bluetooth Enabler/OEM Bluetooth Enabler. The development kit requires very little RAM and FLASH and contains:

- Generic C-code for the ACI protocol
- User manual for the generic C-code
- Sample application
- ACI specification

Programmed to customer specification

To minimize the need for the host system to send ACI commands to the module, it is possible for the customer to order the module with a specific start-up configuration. Examples of such startup configurations include:

- Which profile(s) should be enabled and what service names should they use?
- Should Bluetooth security be enabled or disabled?
- What should the name of the device be?
- What operation mode should the device be in?
- What RS-232 settings should be used?



Technical Data

SPECIFICATIONS

Bluetooth interface

- Generic access profile
- Service discovery
- Serial port profile
- Dial-up networking profile
- LAN access profile*
- Headset profile*
- Object push profile*
- File transfer profile*
- Web/WAP server*, content can be stored in the module or in the host.
- Multipoint*

Bluetooth qualification

The product is Bluetooth qualified according to the Bluetooth 1.1 specification.

Interface

Standard male RS-232 DSUB-9 connector
Supported baud rates: 300 - 115 200
Flow control: CTS/RTS or none

OEM version, Standard 40-pin header, double row (0,050"spacing):

- Power/ground
- 3 pins for LEDs indicating Bluetooth operation
- Serial interface RS-232 or 0/3.3 V
- 3 pins for buttons
- 4 pins for PCM coded audio

Available with three different antennas: internal antenna, antenna stub or antenna on a cable.

Power/current Consumption

Power supply: 9-30 V DC
Power consumption: 9-30 V power 500mW

OEM version:

Power supply 3,6 - 6,5 V DC
Current consumption: at 5 V power; connected 100 mA, not connected 82 mA

Environmental

IEC 61131-2
Operating temperature: 0 - +65 °C
Storage temperature: -25 - +70 °C
Humidity RH 5-95% non-condensing

Tested to comply with

R & TTE Directive 1999/5/EEC
EMC Directive 89/336/EEC
Part 15 of the FCC Rules

Dimensions

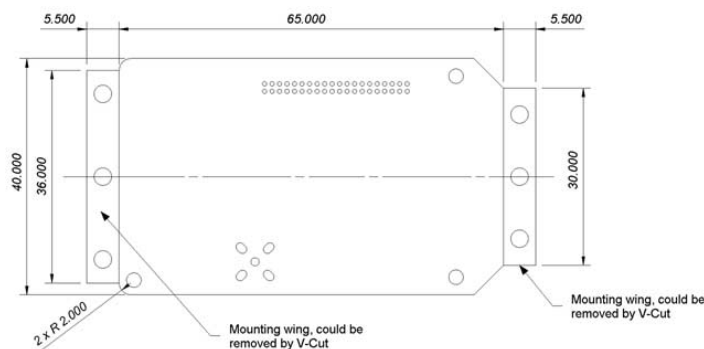
Dimensions: 84.6*63.3*34.6 mm
Weight: 170 grams

OEM Version: 65*40 mm

Weight, internal antenna: 18 grams

Weight, antenna stub: 24 grams

Weight, antenna on a cable: 39 grams



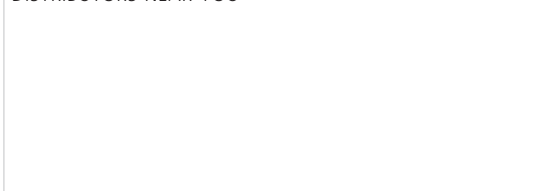
Order number

For latest information go to www.connectblue.se

* under development



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