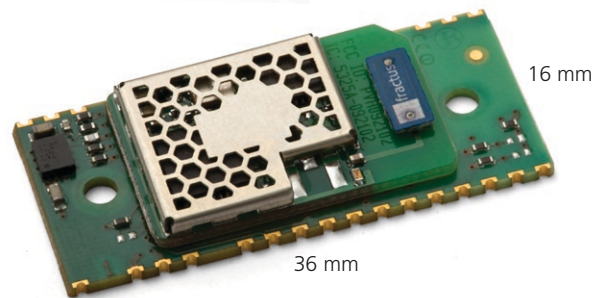
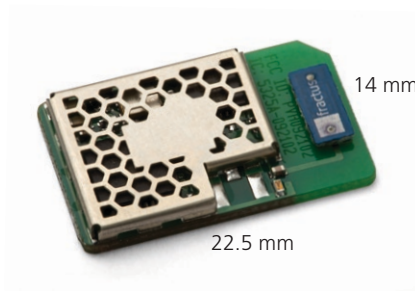


# Bluetooth OEM HCI Module



## Product Brief OHCI406/411

The connectBlue industrial OEM modules OHCI406 and OHCI411 are Bluetooth 2.1+ EDR HCI modules with unique features. For instance, both the Bluetooth MAC (Media Access Control) address and the individual radio tuning parameter are stored directly in the module. As the two HCI (Host Controller Interface) modules are already radio tested and fine-tuned, they are ready to be installed in demanding industrial applications. Also, thanks to their high input sensitivity and high output power, the modules fit nicely when there is a need of a long range high-performing Bluetooth HCI solution.

### KEY FEATURES

- High speed UART and SPI interface
- EDR support for high throughput
- MAC address stored in module
- Bluetooth Qualified as Sub System (Bluetooth version 2.1+EDR)
- Radio type approved for Europe, US, Canada
- Compliant with EMC, Safety and Medical standards
- Industrial and Automotive temperature range -30 to +85°C
- Small in size
- Internal or external antenna
- Different connectors and mounting options
- Module can be soldered directly on to host
- Backwards compatible
- Only high quality components used
- Individually tested and tuned

## BLUETOOTH SUPPORT

Bluetooth version 2.1 + EDR  
Qualified and Listed as controller subsystem  
Host Controller Interface (HCI)

OHCI406: Class I +4 dBm (10 - 150 m)  
OHCI411: Class I +4 dBm (10 - 150 m)

## BLUETOOTH CHIPSET

Product based on CSR BC6 chipset

## SOFTWARE STACK

To be used with any Bluetooth host stack

## HARDWARE INTERFACE

UART Logic-Level  
Supported baud rates: 300 bit/s – 3.0Mbit/s  
Flow control: CTS/RTS or none  
CSPI

## SOFTWARE INTERFACE

HCI H4  
HCI H5  
HCI BCSP

## POWER SUPPLY

OHCI406: 2.7 - 3.6 VDC  
OHCI411: 3.3 - 6.0 VDC

## CURRENT CONSUMPTION

Not connected, idle: 5 mA  
Transmitting (average): 29 mA

## DIMENSIONS / SIZE

OHCI406: 14.0 x 22.5 x 2.0 mm  
OHCI411: 16.0 x 36.0 x 2.4 mm

## TYPE APPROVALS

R&TTE (Europe)  
FCC/CFR 47 part 15 unlicensed modular transmitter approval  
IC (Industrie Canada)

## ENVIRONMENTAL

Maximum operating temperature: -30 to +85°C  
Storage temperature: -40 to +85°C  
Humidity RH 5-90% non-condensing

## 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 NUMBERS

**cB-OHCI406i-04**  
OEM HCI module 406 with internal antenna

**cB-OHCI406x-04**  
OEM HCI module 406 with connector for external antenna

**cB-OHCI411i-04**  
OEM HCI module 411 with internal antenna

**cB-OHCI411x-04**  
OEM HCI module 411 with connector for external antenna

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