



## How to set up a Bluetooth connection



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## 1 How to setup Bluetooth

### 1.1 Setup

- Check that the driver has been probed correctly in the kernel log message

```
Board $>[ 0.923697] STM32 USART driver initialized
Board $>[ 0.928711] 4000e000.serial: ttyS1 at MMIO 0x4000e000 (irq = 42, base_baud
= 6046875) is a stm32-usart
```

- Check the Bluetooth interface

```
Board $> hciconfig -a
hci0: Type: Primary Bus: UART
BD Address: 43:43:A1:12:1F:AC ACL MTU: 1021:8 SCO MTU: 64:1
DOWN
RX bytes:619 acl:0 sco:0 events:31 errors:0
TX bytes:410 acl:0 sco:0 commands:31 errors:0
Features: 0xbf 0xfe 0xcf 0xfe 0xdb 0xff 0x7b 0x87
Packet type: DM1 DM3 DM5 DH1 DH3 DH5 HV1 HV2 HV3
Link policy: RSWITCH SNIFF
Link mode: SLAVE ACCEPT
```

### 1.2 Initialize the Bluetooth interface

```
Board $> hciconfig hci0 up
Board $> hciconfig -a
hci0: Type: Primary Bus: UART
BD Address: AA:AA:AA:AA:AA:AA ACL MTU: 1021:8 SCO MTU: 64:1
UP RUNNING
RX bytes:1378 acl:0 sco:0 events:74 errors:0
TX bytes:1186 acl:0 sco:0 commands:74 errors:0
Features: 0xbf 0xfe 0xcf 0xfe 0xdb 0xff 0x7b 0x87
Packet type: DM1 DM3 DM5 DH1 DH3 DH5 HV1 HV2 HV3
Link policy: RSWITCH SNIFF
Link mode: SLAVE ACCEPT
Name: 'BlueZ 5.46'
Class: 0x000000
Service Classes: Unspecified
Device Class: Miscellaneous,
HCI Version: 4.1 (0x7) Revision: 0x0
LMP Version: 4.1 (0x7) Subversion: 0x2209
Manufacturer: Broadcom Corporation (15)
```



## How to set up a Bluetooth connection

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Universal Synchronous/Asynchronous Receiver/Transmitter

Universal Asynchronous Receiver/Transmitter

Automatic current limit (LCD power improvement solution)

Receive

Transmit

uniprocessor