



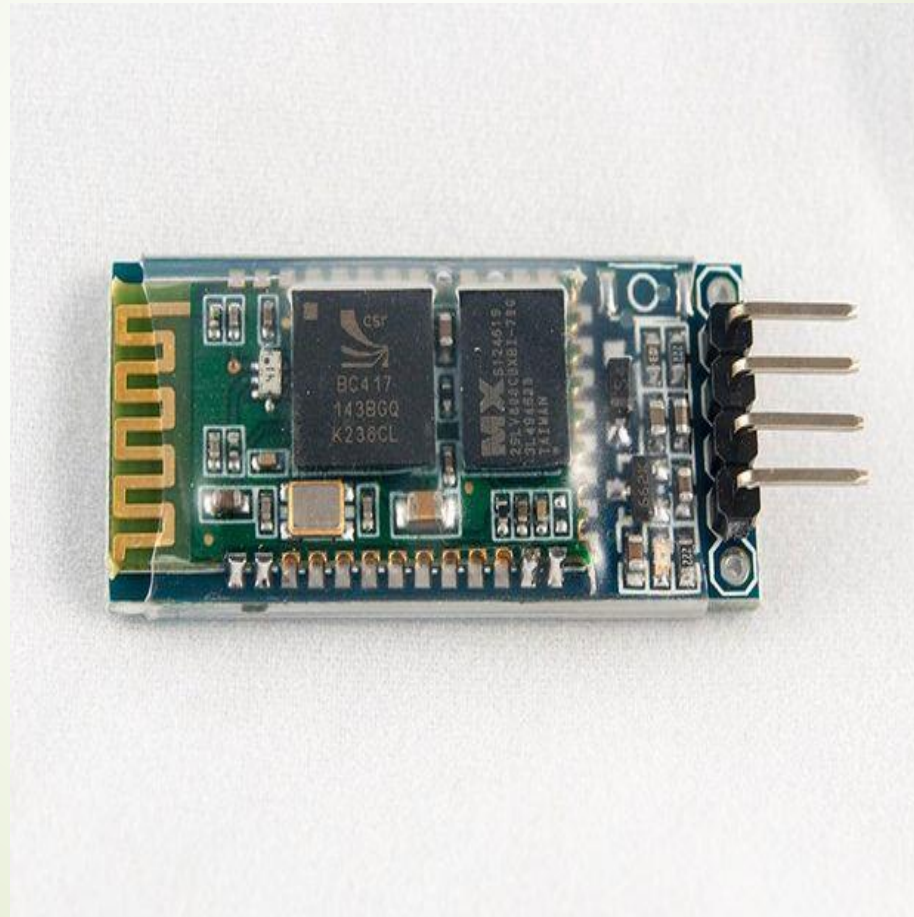
Bluetooth



What is Bluetooth?

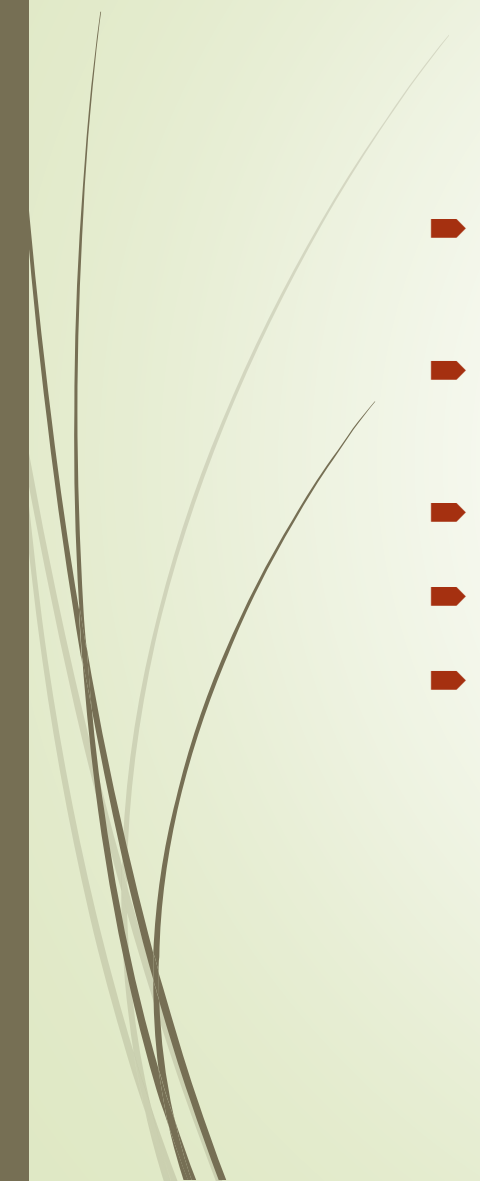
- ▶ **Bluetooth** is:
 - ▶ a wireless technology standard for exchanging data over short distances from fixed and mobile devices, and building personal area networks (PANs)
 - ▶ Range is approximately 10 Meters

HS-06 Bluetooth Module

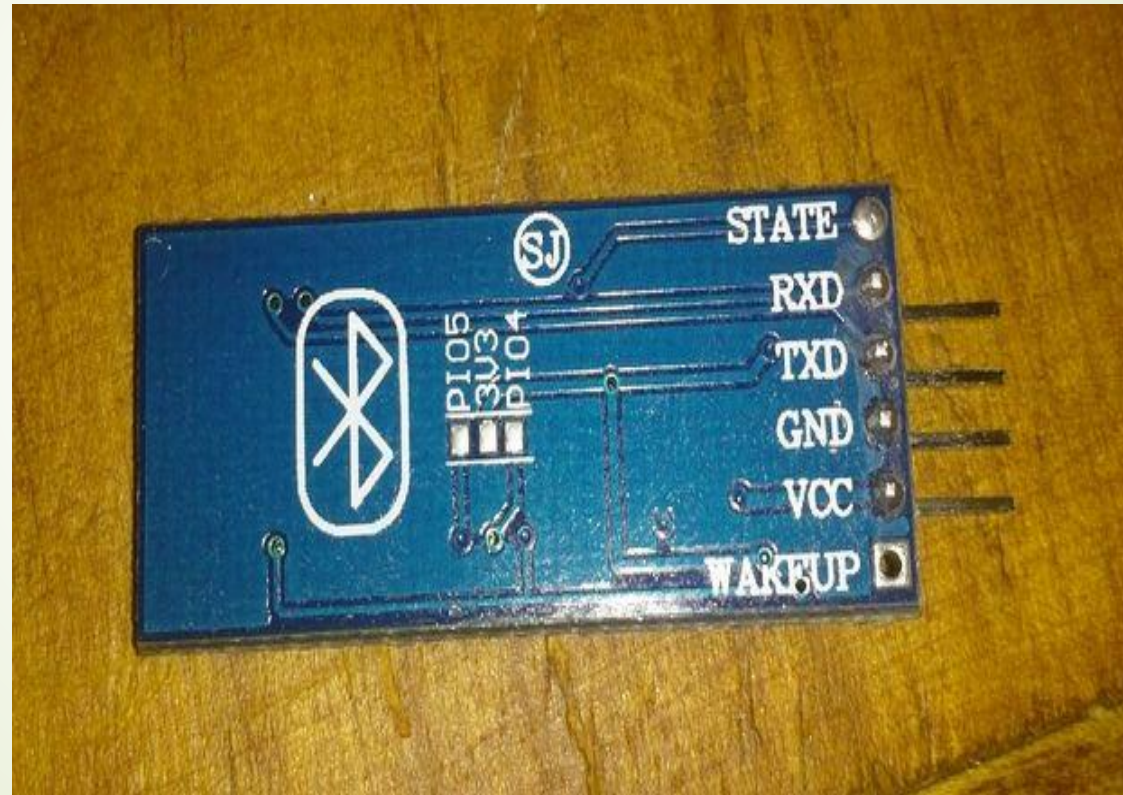





HS-06 / HS-05

- These modules are based on the Cambridge Silicon Radio BC417 2.4 GHz Bluetooth Radio chip.
 - This is a complex chip which uses an external **8 Mbit flash memory**.
 - HC-05 can be set to be either **Master or Slave**
 - HC-06 is a **Slave only** device.
 - Both have relatively the same size: 4.3 x 1.6 x 0.7cm
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Pin-out of HS-06





Pin-out

- **GND:** Ground
- **TXD:** serial *output* of the module, to be connected to **RX of the microcontroller**. Note that this signal is using 3.3V logic level
- **RXD:** serial *input* of the module, to be connected to the **TX of the microcontroller**. Note that this signal is using 3.3V logic levels.
- **VCC:** handles 3.3V or 5V
- **STATE** simply indicates if the device is awake or not.