

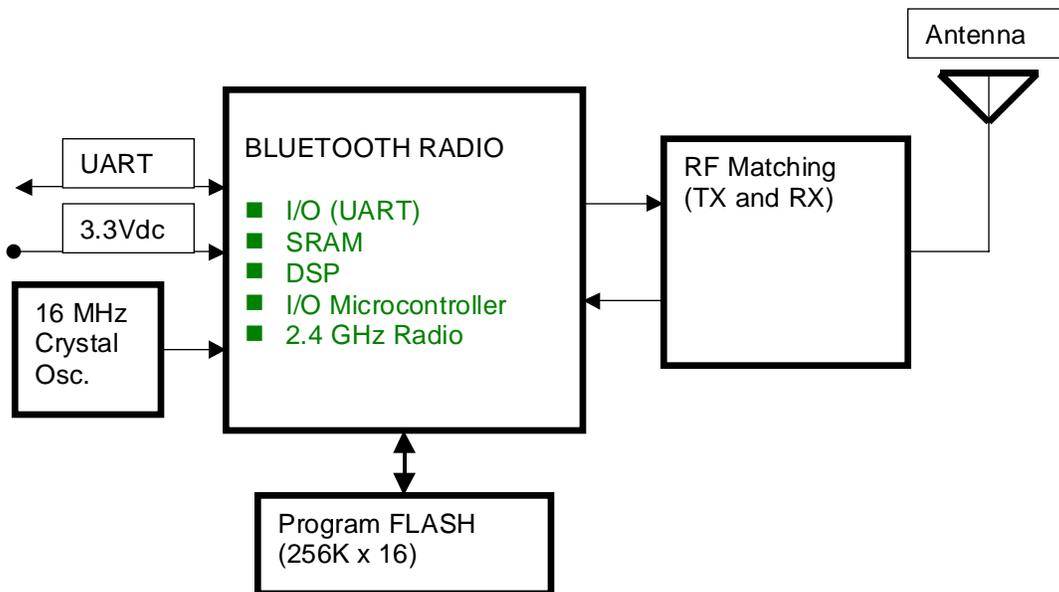
Abu Bluetooth Device Technical Product Description

This device is a custom form-factor designed to be internally connected to the host. The antenna is attached to the PCB and the UART interface is connected to the host through a connector and wiring.

The device contains one major integrated circuit part; the Baseband/Radio RF chip. The card runs from a 16MHz clock routed straight to the Baseband/Radio RF chip, and has a series RC network to reduce emissions. The card operates on one +3.3Vdc digital voltage supplied from the host.

The device is connected to the host via a UART connection. Data coming from the host on the UART lines is routed straight to the Baseband/Radio RF chip. The Baseband/Radio RF chip, using firmware stored in the Flash ROM, encodes and packetizes the data in accordance with the Bluetooth Specification and then transmits the data over an established radio link to another Bluetooth capable device. All the RF parameters (transmit power, hopping frequency and order, protocols, etc.) are in accordance with the Bluetooth Specification.

The antenna will be soldered to the PCB at manufacturing so it will be fixed and not easily changed by the end-user.



Block Diagram