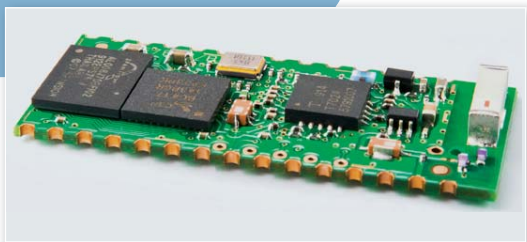


Bluetooth® Module

Class 1 - Data - 100mW - 2.41/2.48GHz



Bluetooth® Module

This **compact module** (32 x 14 x 3 mm) allows a two-way Bluetooth® data transmission, up to 150m.

It uses the **2.45GHz frequency world band**. This module is Bluetooth® V2 certified under the «End Product» category, allowing customers integrating our solution, to use the Bluetooth® label.

The data transmission and configuration are done via an UART serial interface «TTL» type. The radio rate goes from 723kbps to 3Mbps EDR. The miniature antenna is integrated (RF pin or UFL connector versions also available).

In «Data» mode, the embedded SPP profile allows the module to establish a wireless serial link to a PDA, laptop, mobile phone or other device equipped with a Bluetooth® function. OPP profile allows you to send files to a Bluetooth® system.

References

ARF7680AA	BTC1-DATA Bluetooth® Module - Integrated antenna
ARF7680BA	BTC1-DATA Bluetooth® Module - RF out pin
ARF7681AA	BTC1-DATA Bluetooth® Module - U.FL connector

Technical specifications

Features

- Bluetooth 2.1 stack (Chipset CSR Bluecore4-Ext)
Baseband - Link Manager - L2CAP - RFCOMM - SDP - SCO
- Data profiles: SPP - OPP - DUN

Performance

- Frequency: FHSS / 2.402 to 2.480GHz
- Radiated RF power: 100mW (20dBm) with integrated antenna
- RF sensitivity: -86dBm (BER 10-3)
- Range: up to 150m
- Air rate: up to 3Mbps EDR

Power consumption & requirements

- Operating voltage: 3.3V typ (from 2.85V to 3.6V)
- Max TX consumption: 300mA
- Typical RX consumption: 50mA
- Standby consumption: 1 to 6mA

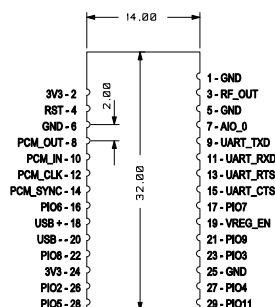
Interfaces

- UART with flow control
- PCM
- UART programmable speed: from 9.6 to 921.6kbps

General information

- Operating temperature: -40°C / +85°C
- Dimensions: 32 x 14 x 3 mm
- Standards: EN 300-328 / EN 301-489 / FCC part 15 / IC
- Mounting: SMD

Pin configuration & Dimensions



Modules **Bluetooth® Class1**