



Class1 Bluetooth® module



This miniature module enables **two-way Bluetooth® transmission over a range of 150m**. It uses the 2.45GHz world frequency band according to the European directive RTTE EN300-220 / EN301-489. This module is **fully compliant with the Bluetooth® V2.0 + EDR (Enhanced Data Rate) standard**.

Its "air" data rate goes up to **3Mbps**, if EDR mode is supported on both sides. Data transmission and setup are performed via a standard or complete UART serial interface.

The **miniature antenna** is integrated on the PCB. The module is available as Stand-alone modules or in DemoKit.

This product covers the following applications :

- payment terminals ;
- trucks geolocalisation ;
- data transmission for environment.

The major advantage stems from the fact that this module is fully compatible with PDA's, laptops and Bluetooth® GSMs.

Specifications

General informations

- Rough data rate
- Embedded profiles
- Standards UART TTL ports
- Complete UART TTL ports
- UART programmable data rates
- Bluetooth Upper & Lower stack
- Additional «on-module» applications

723kbps (3Mbps in EDR mode)

SPP, DUN, SPP config.

TXD - RXD - RTS - CTS

TXD - RXD - RTS - CTS - DTR - DSR - DCD - RI / DUN profile

Standards from 9.6 to 921.6kbps

Baseband, Link manager, L2CAP, RFCOMM, SDP

Link setup and configuration - through AT commands

- Frequency
- Radiated RF power
- Sensitivity
- Operating mode
- Range in free field

FHSS / 2.402 to 2.480GHz

100mW (20dBm)

up to -85dBm

transparent

150m

- Operating voltage (from 2.85 to 3.6)
- Transmission consumption
- Burst transmission consumption (max)
- Permanent reception consumption
- Connected consumption

3 to 3.6V

50mA

300mA

40mA

6mA

- Operating temperature
- Size

-30°C / +70°C

33 x 18 x 5 mm

- **Fully compliant with the EN 300-328 / EN 301 489 (Europe), FCC part 15 (US) Directives**

DemoKit - Integration kit including : demoboard, module, RS232 cable, power supply

- Evaluate the products
- Perform RF measurements
- Develop a prototype

Part Numbers

ARF7456A : Class1 Bluetooth® module

ARF7469B : RS232 DemoKit

Your distributor