



## 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

**-20°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