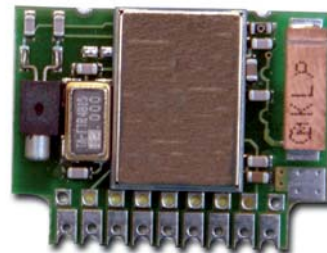




Bluetooth® module for Data / Audio transmission



This miniature module enables **two-way Bluetooth® data and/or audio transmission over a range of 20m.**

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 V1.1 standard.** It is **certified Bluetooth** "http://qualweb.bluetooth.org/Template2.cfm?LinkQualified=QualifiedProducts&Details=Yes&ProductID=2396"

The certification corresponds to an « End user » solution, that means that the customers who have embarked our solution can use directly the Bluetooth « label »

Its raw data rate goes up to **723kBps**. Data transmission and configuration are performed via a UART serial interface.

The **miniature antenna** is integrated on the PCB.

This product covers most applications requiring **short-distance communication**: file transmission, **wireless acquisition systems**, multipoint access control, **automatic control system peripheral**, cordless picoLAN.

The major advantage stems from the fact that **the embedded SPP profile is fully compatible with PDAs, portable PCs and Bluetooth® GSMs.**

Specifications

General informations

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

723 Kbps
GAP, SDAP, SPP
TXD - RXD - RTS - CTS
Standards from 9.6 to 921.6 kbps
Baseband, Link manager, L2CAP, RFCOMM, SDP
Link setup and configuration - Service database modifications

- Frequency
- Radiated RF power
- Sensitivity
- Range

FHSS / 2.402 to 2.480 GHz
2 mW (3 dBm)
-85 dBm for BER 10-3
>20 m

- Operating voltage (from 2.85 to 3.6)
- TX / RX consumption
- Stand by consumption
- Power supply rise time

3.3V nominal (data version) - 3 V nominal (audio version)
40 mA (data version) / 45 mA (audio version)
250 µA
50 ms

- Operating temperature
- Size

-25°C / +75°C
20 x 24 x 4 mm

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

Audio version characteristics

- Audio codec
- Audio band
- Microphone
- Speaker

Codec PCM 13 bits
200 - 3400 Hz
Analog input
Analog output

Alternative versions

ARF7044A : Bluetooth® module - Data version
ARF7069B : RS232 Data demo kit
ARF7208A : Bluetooth® module - Data/Audio version
ARF7213B : RS232 Data/Audio demo kit

Your distributor