



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 module is available with integrated antenna on the PCB or uFL antenna connector*; as a Stand-alone modules or in DemoKit versions.

This product covers the following applications :

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

Specifications

• Rough data rate	723kbps (3Mbps in EDR mode)
• Embedded profiles	SPP, DUN, SPP config.
• Standards UART TTL ports	TXD - RXD - RTS - CTS
• Complets UART TTL ports	TXD - RXD - RTS - CTS - DTR - DSR - DCD - RI (Profil DUN)
• UART programmable data rates	Standards de 9.6 à 921.6kbps
• Bluetooth upper & lower stack	Baseband, Link manager, L2CAP, RFCOMM, SDP
• Additional "on-module" applications	Etablissement et configuration liaison - via commandes AT
• Frequency	FHSS / 2.402 à 2.480GHz
• Radiated RF power	100mW (20dBm)
• Sensitivity	jusqu'à -85dBm
• Operating mode	transparent
• Range in free field	150m
• Operating voltage (de 2.85 à 3.6)	3 à 3.6V
• Transmission consumption	50mA
• Burst transmission consumption (max)	300mA
• Permanent reception consumption	40mA
• Connected consumption	6mA
• Operating temperature	-30°C / +70°C
• Size	33 x 18 x 5 mm
• Fully compliant with	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

* Accessories available for module with uFL antenna connector:
- 20cm uFL => sma cable
- sma antenna

Your distributor

Part numbers

ARF7456A : Class1 Bluetooth® module with integrated antenna
ARF7456B : Class 1 Bluetooth® module with uFL antenna connector
ARF7469B : RS232 DemoKit (module with integrated antenna)