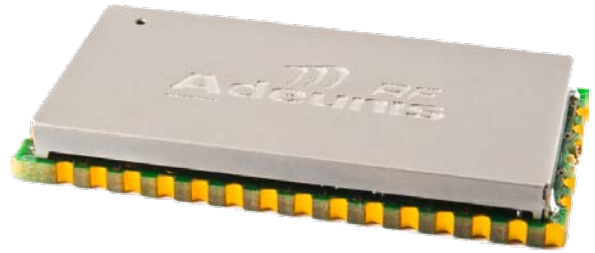


TWIMO MP868 Module



Highlights

- Up to 1km
- 50mW / 17dBm
- Licence-free frequencies 863-870MHz
- RTU and API version

SMD RF module optimized for **low consumption/short range** in the 868MHz ISM band.

Product «Smart RF» by nature, this module offers **several usage modes** for implementation of simplified bidirectional data transmissions «point-to-multipoint», while providing **extremely robust wireless link up to 1000m**.

Available in «**Ready-to-use**» version, this module focuses on **ease of**

integration, even for non RF specialists, thus **limits technological risks, development time and costs**.

In its **programmable «API»** version, this module allows to embed the customer application.

Certified by a notified body, the TWIMO modules are compliant to the 2010 edition of European R & TTE Directive EN300-220

Performances

Range : up to 1km
Power: 50mW
Radiated RF power : 17dBm
Sensitivity : -110dBm
Frequencies : 863 to 870MHz
RD data rate : 10/38.4/57.6kbps
Modulation : GFSK

Hardware

Interfaces : UART
Microcontroller : STM32 ARM Cortex-M3
RF chip : TI CC1120

Firmware

Transparent Mode
Addressed Mode
Network mode

Packet mode
Secured mode

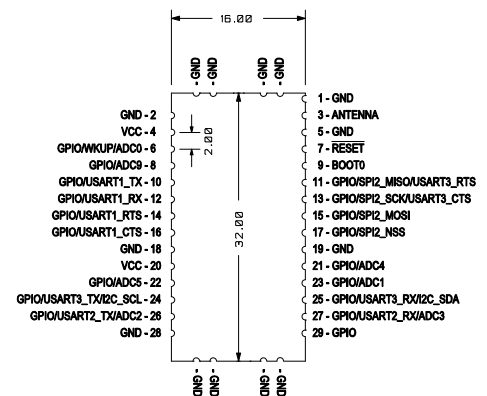
Consumption & needs

Operating voltage : 3-3.6V
Consumption (stdby) : 10 μ A
Consumption (RX) : 18mA
Consumption (TX) : 150mA (17dBm)

General information

Dimensions : 32 x 16 x 3mm
Weight : 3 g
Operating temperature : -40°C /+85°C
Certified EN300-220 V2010
SMD mounting

PACKAGING DIMENSIONS AND PIN CONFIGURATIONS



Reference

- **ARF7580BA** TWIMO MP868 RTU TRX 50MW
- **ARF7735AA** TWIMO MP868 API TRX 50MW