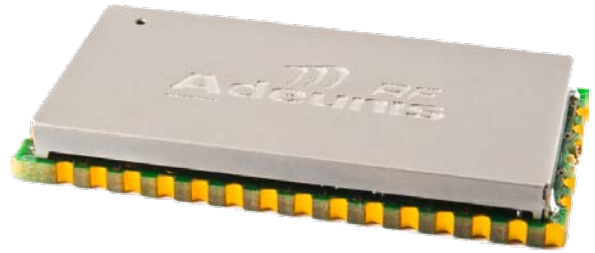


# TWIMO HP868 Module



## Highlights

- Up to 6km
- 500mW / 27dBm
- Licence-free frequencies 863-870MHz
- RTU and API version

**SMD RF module** optimized for **long range applications** 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 6000m**.

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 6km  
Power: 500mW  
Radiated RF power : 27dBm  
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

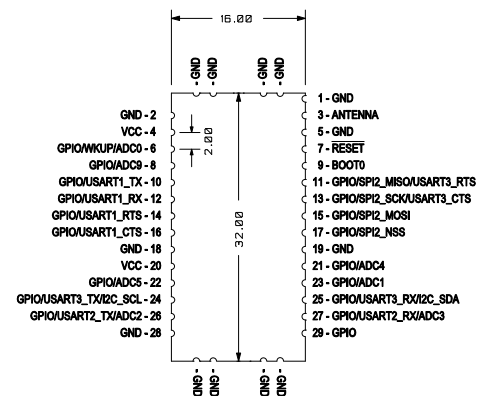
## Consumption & needs

Operating voltage : 3-3.6V  
Consumption (stdby) : 10  $\mu$ A  
Consumption (RX) : 30mA  
Consumption (TX) : 600mA (27dBm)

## 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

- **ARF7581BA** TWIMO HP868 RTU TRX 500MW
- **ARF7736AA** TWIMO HP868 API TRX 500MW