

868 MHz FSK Transceiver

High Sensitivity & Power Down Functionality

RTX-868-FSK

P.N. 650201343G

DESCRIZIONE

Ricetrasmittitore di dati digitali operante nelle bande ISM:

- 868.0 ÷ 868.6 MHz
- 869.7 ÷ 870 MHz

Modulazione FSK e antenna integrata ad alta efficienza.

Trasmette dati in modo trasparente, provenienti da protocolli proprietari con un data rate fino a 9600 bps (NRZ) o 4800 con codifica Manchester.

Principali caratteristiche: potenza RF (ERP) di 6 dBm, sensibilità RX -108 dBm, alimentazione da 2,1 V a 3,6 V.

Il dispositivo ha una dimensione compatta in formato SMD, disponibile in reel per montaggio automatico.

DESCRIPTION

Digital data transceiver operating in the IMS bands:

- 868.0 ÷ 868.6 MHz
- 869.7 ÷ 870 MHz

FSK modulation and high efficiency integrated antenna.

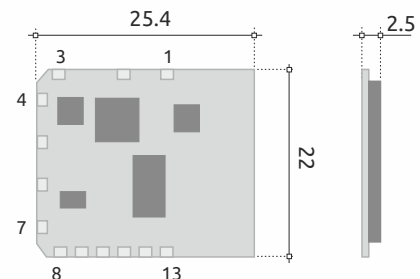
It transmits data coming from proprietary protocols in transparent mode with a data rate up to 9600 bps (NRZ) or 4800 with Manchester coding.

Main features: effective radiated power of 6 dBm, reception sensitivity -108 dBm, voltage supply from 2.1 V to 3.6 V.

The device has a compact size in SMD format, available in reel for automatic assembly.



DIMENSIONS



PIN-OUT

- | | |
|-----------|-------------------------|
| 1) GND | 8) GND |
| 2) GND | 9) DIGITAL DATA INPUT |
| 3) GND | 10) DIGITAL DATA OUTPUT |
| 4) GND | 11) ENABLE |
| 5) +Vcc | 12) TX/RX |
| 6) CN/SEL | 13) GND |
| 7) RSSI | |

TECHNICAL SPECIFICATION

Ta = 25 °C

| CARATTERISTICHE | CHARACTERISTICS | MIN | TYP | MAX | UNIT |
|-------------------------------|-----------------------------|--------|--------|--------|------|
| Alimentazione | Power supply | 2.3 | 3 | 3.6 | Vdc |
| Corrente assorbita TX FSK | Supply Current TX FSK | | | 30 | mA |
| Corrente assorbita RX ON | Supply Current RX ON | | 4 | | mA |
| Corrente assorbita Power Down | Supply Current Power Down | | | 1 | µA |
| Centro frequenza (CN/SEL=0) | Center frequency (CN/SEL=0) | 868.29 | 868.30 | 868.31 | MHz |
| Centro frequenza (CN/SEL=1) | Center frequency (CN/SEL=1) | 869.84 | 869.85 | 869.86 | MHz |
| Sensibilità FSK | FSK Sensitivity | | -108 | | dBm |
| Potenza RF (ERP) | RF Power (ERP) | | 3 | 5 | dBm |
| Temperatura di lavoro | Operating temperature range | -20 | | +70 | °C |

