

# 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.

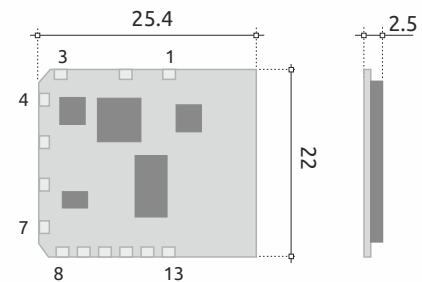
It transmits data coming from proprietary protocols in transparent mode with a data rate up to 9600 bps (NRZ) or 4800 with Manchester coding.

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

