

868 MHz FSK Transceiver

High Sensitivity & Power Down Functionality

RTX 868 FSK

P.N. 650201343G

DESCRIZIONE

Ricetrasmittitore di dati digitali operante nella banda 868MHz, alle frequenze 868.3MHz e 869.85MHz.

Modulazione FSK e antenna integrata ad alta efficienza. Trasmette dati in modo trasparente, provenienti da protocolli proprietari con un data rate che arriva a 9600 bps (NRZ) o 4800 con la codifica Manchester.

Principali caratteristiche: E.R.P. di 6 dBm, Sensibilità RX -108 dBm, alimentazione da 2,1V a 3,6 V.

E' conforme alla normativa ETSI EN 300220-1 V2.3.1. .

Il dispositivo ha una dimensione compatta in formato SMD, disponibile in bobina per l'assemblaggio automatico.

DESCRIPTION

Transceiver of digital data working in the bandwidth 870 MHz, with reception frequencies 868,3 MHz and 869,85 MHz.

FSK modulation and high efficiency integrated antenna.

It transmits data in transparent way coming from proprietary protocols with a maximum data of 9600 bps (NRZ) and of 4800 with Manchester coding.

The main features are: Effective radiated Power of 6 dBm, reception sensitivity-108 dBm FSK mode, voltage supply from 2.1 V to 3.6 V. It's comply with ETSI EN 300220-1 V2.3.1.

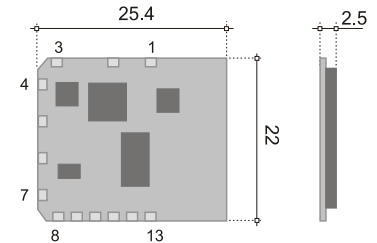
The device has a compact size in SMD format, available in reel for automated assembly.

TECHNICAL SPECIFICATION

Ta = 25 °C

CARATTERISTICHE	CHARACTERISTICS	MIN	TYP	MAX	UNIT
Alimentazione	Power supply	2.8	3.5	6	Vdc
Corrente assorbita TX FSK	Supply Current TX FSK		31		mA
Corrente assorbita RX ON	Supply Current RX ON		6.8		mA
Corrente assorbita Power Down	Supply Current Power Down			1	µA
Frequenza di ricezione	Reception frequency		868.30		MHz
Sensibilità FSK	FSK Sensitivity		-108		dBm
Potenza RF	RF Power	7	8.5	10	dBm
Temperatura di lavoro	Operating temperature range	-20		+85	°C

DIMENSIONS



COMPONENT SIDE



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 | |