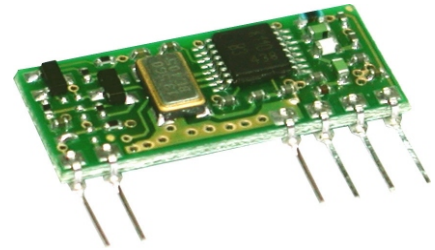


# TX-FM-MID

3V 434MHz  
PLL FSK Transmitter



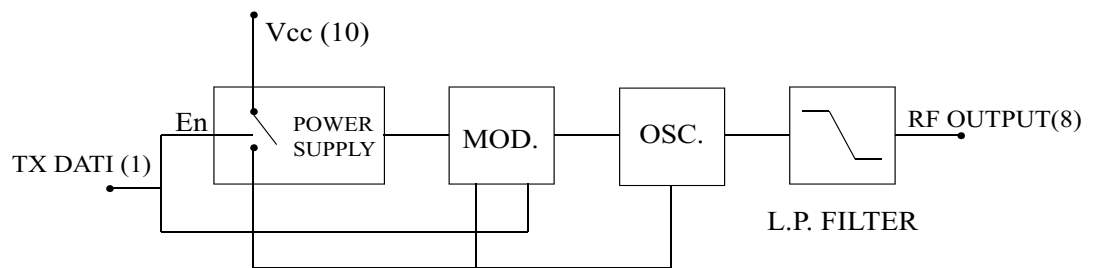
## Description

434MHz transmitter module with FSK modulation and external antenna for LPD applications. Pin to pin compatible with ASK Aurel modules TX SAW MID.  
In compliance with european normatives EN 300-220 and EN 301-489.

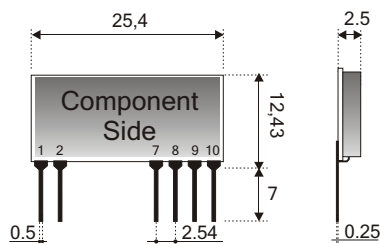
## Descrizione

Modulo trasmettitore RF a 434MHz con modulazione FSK ed antenna esterna per applicazioni LPD. Pin to pin compatibile con i moduli ASK TX SAW MID Aurel.  
In accordo con le normative europee EN 300-220 e EN 301-489.

Block diagram



Mechanical Dimensions



### Pin-out

- 1 = Tx DATI
- 2 = GND
- 7 = GND
- 8 = Uscita RF
- 9 = GND
- 10 = Vcc

# 434 MHz PLL FSK Transmitter

## Technical Specification

Ta = 25 °C

Characteristics	Min	Typ	Max	Unit
V <sub>S</sub> Supply Voltage	2.1	3	3.6	Vdc
I <sub>S</sub> Supply Current	11	14	16	mA
I <sub>PD</sub> Supply Current (power down mode)		< 1		μA
F <sub>W</sub> Carrier frequency		433.92		MHz
P <sub>O</sub> RF Output power	7	10	12	dBm
Z <sub>O</sub> RF Output Impedance		50		Ω
D <sub>F</sub> Deviation		± 20		KHz
F <sub>M</sub> Square wave modulation		5	40	KHz
L <sub>I</sub> Input logic level	0		Vs	V
T <sub>WU</sub> Wake up time <sup>(1)</sup>		1.4		ms
T <sub>OP</sub> Operating temperature range	-20		+80	°C

<sup>(1)</sup>Device wake up time from first low-high transaction on input data pin. The first 1.4ms of data aren't so transmitted.

## Specifiche Tecniche

Ta = 25 °C

Caratteristiche	Min	Typ	Max	Unità
V <sub>S</sub> Alimentazione	2.1	3	3.6	Vdc
I <sub>S</sub> Corrente assorbita	11	14	16	mA
I <sub>PD</sub> Corrente assorbita (power down mode)		< 1		μA
F <sub>W</sub> Frequenza portante		433.92		MHz
P <sub>O</sub> Potenza di uscita RF	7	10	12	dBm
Z <sub>O</sub> Impedenza d'uscita RF		50		Ω
D <sub>F</sub> Deviazione		± 20		KHz
F <sub>M</sub> Frequenza di modulazione		5	40	KHz
L <sub>I</sub> Livello logico d'ingresso	0		Vs	V
T <sub>WU</sub> Tempo di accensione <sup>(1)</sup>		1.4		ms
T <sub>OP</sub> Temperatura di lavoro	-20		+80	°C

<sup>(1)</sup>Tempo di accensione del dispositivo dal primo fronte di salita sul pin di ingresso dati. I primi 1.4ms di dati non vengono perciò trasmessi.

### Part Number / Model

65PR00876  
mod. TX-FM-MID