

## 433.92 GFSK transmitter

GFSK transmitter with external antenna  
(Radio Equipment Directive 2014/53/EU)



# TX-NB4-5V-FSK

P.N. 650201603G

### DESCRIZIONE

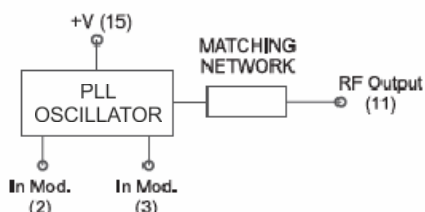
Trasmittitore pin-out standard Aurel, 433,92MHz modulazione GFSK con tecnica PLL. Antenna esterna, conforme RED. Ampia gamma di tensioni di alimentazione per sistemi alimentati a batteria. Funziona in modalità stand-alone, non necessita di programmazione

### DESCRIPTION

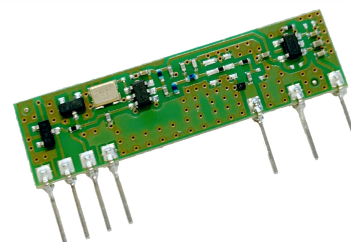
Standard Aurel pin-out module 433,92MHz GFSK modulation transmitter. Full RED compliance, external antenna, improved modulation by PLL technique. Wide supply voltage range for battery operated systems. It works in stand-alone mode, no programming need.

### BLOCK DIAGRAM

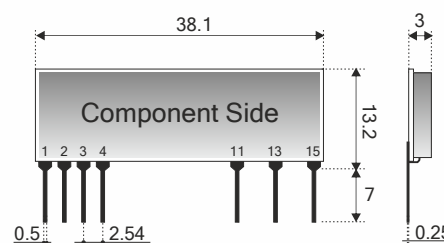
#### Block Diagram



### COMPONENT SIDE



### DIMENSIONS



### PIN-OUT

- 1) Ground
- 2) In modulation
- 3) In modulation
- 4) Ground
- 11) Antenna
- 13) Ground
- 15) +V

## TECHNICAL SPECIFICATION

Ta = 25 °C

| CHARACTERISTICS                |                                     | MIN | TYP    | MAX    | UNIT |
|--------------------------------|-------------------------------------|-----|--------|--------|------|
| Working frequency              | Frequenza di lavoro                 |     | 433.92 |        | MHz  |
| Power supply                   | Alimentazione                       | 1.8 | 5      | 12     | Vdc  |
| RF output power                | Potenza in uscita RF                |     | 11     |        | dBm  |
| 50 Ohm power harmonic 4GHz     | 50 Ohm potenza armonica 4GHz        |     |        | -50    | dBm  |
| Output impedance pin ANT.      | Impedenza di uscita pin ANT.        |     | 50     |        | Ohm  |
| Consumption stand-by           | Consumi in stand-by                 |     | 0.1    | 1      | µA   |
| Consumption (TX)               | Consumo (TX)                        |     | 26     |        | mA   |
| Modulation voltage input data  | Ingresso tensione di modulazione    | 1.8 |        | 3.6    | V    |
| Modulation frequency deviation | Deviazione frequenza di modulazione |     | ±35    |        | KHz  |
| Data Rate                      | Velocità dati                       |     |        | 10.000 | bps  |
| Switch time PWDN to TX         | Tempo di commutazione PWDN to TX    |     | 0.7    | 1      | ms   |
| Switch time TX to PWDN         | Tempo di commutazione TX to PWDN    |     | 20     |        | ms   |
| Working temperature            | Temperatura di lavoro               | -20 |        | +80    | °C   |