

869 MHz Long Range Transceiver

Half-duplex Long Range Transceiver

RTX LONG RANGE 869 MHz

P.N. 65PR01857

Descrizione

Ricetrasmittitore half-duplex per comunicazioni in distanza fino a 3 Km operante nella banda europea 869,4+869,65 MHz libera da licenze e vincoli da canoni o tasse territoriali.

L'elevata sensibilità in ricezione (-118 dBm) unita alla potenza di trasmissione (+27 dBm) assicurano un budget-link di circa 145 dB migliorando la distanza di comunicazione di 4-5 volte rispetto ai dispositivi LPD fino a 10mW.

Description

RTX-LONG-RANGE-869 MHz radio transceiver half-duplex, offers improved performance, as such as longer RF range up to 3 Km, operates in European band 869,4+869,65 MHz free licensed with no government taxes.

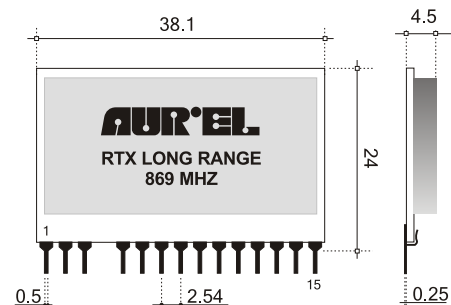
Its higher sensitivity level (-118dBm) mixed up with its typical ERP (+27 dBm) can assure a budget-link around 145dB, improving communication distance of 4-5 times better compared with traditional 10mW LPD devices.

TECHNICAL SPECIFICATION

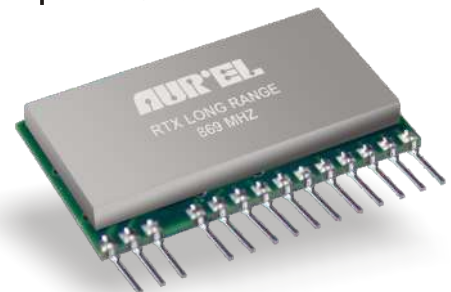
CARATTERISTICHE	CHARACTERISTICS	MIN	TYP	MAX	UNIT
Alimentazione	Power supply	2.8	3.5	6	Vdc
Corrente assorbita TX FSK	Supply Current TX FSK		31		mA
Corrente assorbita TX OOK	Supply Current TX OOK		20		mA
Corrente assorbita RX ON	Supply Current RX ON		6.8		mA
Corrente assorbita Power Down	Supply Current Power Down			1	µA
Frequenza di ricezione	Reception frequency		868.30		MHz
Sensibilità FSK	FSK Sensitivity		-108		dBm
Sensibilità OOK	OOK Sensitivity		-109		dBm
Potenza RF (FSK + OOK)	RF Power (FSK + OOK)	7	8.5	10	dBm
Temperatura di lavoro	Operating temperature range	-20		+85	°C

Ta = 25 °C

Dimensions



Component Side



Pin-Out

- | | |
|------------------------------|---------------------|
| 1) +V_PA_LNA | 10) GND |
| 2) ANTENNA | 11) CN0 / RTS |
| 3) GND | 12) CN1 / CTS |
| 4) NC (pin assente) | 13) CN2 / RX_UART |
| 5) DM/UART | 14) PW_TX / TX_UART |
| 6) ENABLE | 15) +V_RD |
| 7) TX_RX / SP1 | |
| 8) IN_DATA / SP2 | |
| 9) OUT-DATA (RX direct mode) | |