

LoRa™ transceiver

LORAWAN™ COMPATIBLE

XTR-8LRWAN

P.N. 650201432G

DESCRIZIONE

Ricetrasmittitore half-duplex con tecnica di modulazione LoRa™ in grado di garantire comunicazioni a lunghissima distanza, elevata immunità alle interferenze, elevata sensibilità e ridotti consumi energetici.

XTR-8LRWAN è un dispositivo pensato per supportare lo stack del protocollo LORAWAN™, progettato per Low Power Wide Area Network (LPWAN) con funzionalità specifiche per supportare comunicazioni bidirezionali sicure per Internet of Things (IoT), machine-to-machine (M2M), smart city e applicazioni industriali.

DESCRIPTION

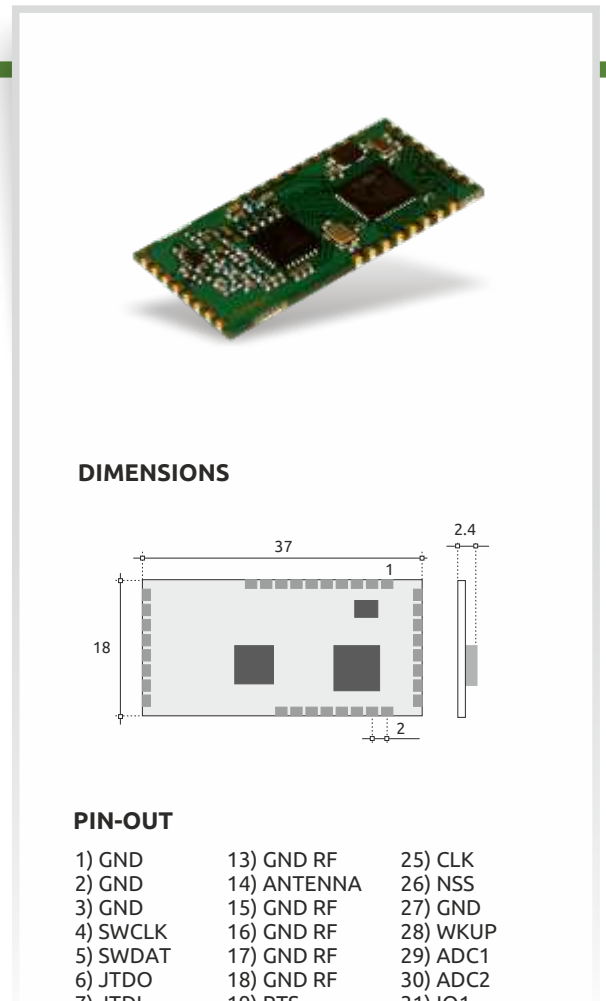
Half duplex transceiver based on LoRa™ modulation technique providing an ultra long range radio communication, high interference immunity, high sensitivity and very low power consumption.

XTR-8LRWAN is designed to support LORAWAN™ protocol stack to provide Low Power Wide Area Network with features specifically needed to support low-cost, mobile, secure bi-directional communication for Internet of Things (IoT), machine-to-machine (M2M), smart city and industrial applications.

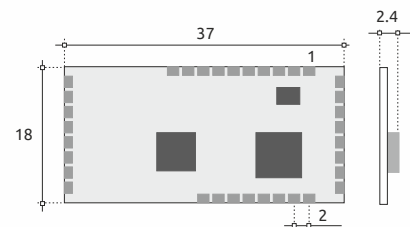
TECHNICAL SPECIFICATION

Ta = 25 °C

CHARACTERISTICS	CARATTERISTICHE	MIN	TYP	MAX	UNIT
Power supply	Tensione di alimentazione	2.4	3	3.6	Vdc
Supply Current (Standby)	Corrente assorbita (Standby)		2		µA
Supply Current (RX mode)	Corrente assorbita (RX mode)		11		mA
Supply Current (TX mode @20dBm)	Corrente assorbita (TX mode @20dBm)		120		mA
Modulation type	Tipo di modulazione		LoRa™		
RX sensitivity (BW 125 KHz - SF12)	Sensibilità RX (BW 125 KHz - SF12)		-137		dBm
RF output power	Potenza RF		100		mW
Outdoor range	Portata esterna			20	Km
Frequency band	Banda di frequenza	863		870	MHz
Operating temperature range	Temperatura di lavoro	-40		+85	°C



DIMENSIONS



PIN-OUT

1) GND	13) GND RF	25) CLK
2) GND	14) ANTENNA	26) NSS
3) GND	15) GND RF	27) GND
4) SWCLK	16) GND RF	28) WKUP
5) SWDAT	17) GND RF	29) ADC1
6) JTDO	18) GND RF	30) ADC2
7) JTDI	19) RTS	31) IO1
8) RESET	20) CTS	32) SDA
9) BOOT	21) RX_UART	33) SCL
10) +VCC	22) TX_UART	34) GND
11) GND RF	23) MISO	
12) GND RF	24) MOSI	

