

CLR-ER Modulo Energy Reader LoRa

DISPOSITIVO EMBEDDED BASATO SU TECNOLOGIA "LoRa" PER IL CONTROLLO E MONITORAGGIO INTELLIGENTE DI ELEMENTI ENERGIVORI



OVERVIEW

- LONG RANGE – 868MHz
- LOW POWER
- SENSITIVITY FINO A -137 dBm
- ELEVATO LINK BUDGET FINO A 156 dB
- TX POWER OUTPUT FINO A +19 dBm
- LED PER INDICAZIONE TX/RX, POWER
- SOLID STATE RELAY
- ON/OFF-DIMMING
- DALI CONTROL COMPLIANT
- EMBEDDED SCHEDULER
- ALIMENTAZIONE 220VAC
- FACILE DA INSTALLARE

CARATTERISTICHE PRINCIPALI

<i>Parameter</i>	<i>Min.</i>	<i>Typ.</i>	<i>Max</i>	<i>Unit</i>
Power Supply		110-260		Vac
Frequency		50		Hz
Isolation Voltage		5000		Vrms
Power Consumption		0,6		W
Dimension (L x W x H)		94 x 45 x 26		mm
Operation Mode		ON/OFF DIMMING		
Dimming Control Interface		0-10		V
Measured current		<10		A
Operating Temperature	-40	-	+85	°C
Compliant Standards	CE, EN 61000-3-2(2014), EN 61547(2009), EN 60068-2-1(2007), EN 60068-2-2(2007), Prequalified according to ETSI EN 300 220			
Certifications	CE / FCC (in progress)			

CARATTERISTICHE RF DEL TRASMETTITORE

<i>Parameter</i>	<i>Condition</i>	<i>Min.</i>	<i>Typ.</i>	<i>Max</i>	<i>Unit</i>
FrequencyRange		863	-	870	MHz
RF Output Power	868 MHz Band	7	13	19	dBm
Modulation Techniques		FSK/LoRa			
TX Frequency Variation vs. Temperature	-20 to +70°C	-	±7	-	kHz
TX Power Variation vs. Temperature	-20 to +70°C		±0.5		dB

CARATTERISTICHE RF DEL RICEVITORE

La seguente tabella fornisce tipici livelli di sensitività del modulo

SignalBandwidth [kHz]	SpreadingFactor	Sensitivity [dBm]
125	7	-123
125	12	-138
250	7	-121
250	12	-135
500	7	-116
500	12	-130

SCHEMA DI CONNESSIONE

