

# RYLR907

UART Interface 868/915 MHz Lora Antenna Transceiver Module

**Datasheet** 





























#### PRODUCT DESCRIPTION

The RYLR907 transceiver module feature the Lora long range modem that provides ultra-long range spread spectrum communication and high interference immunity whilst minimising current consumption.

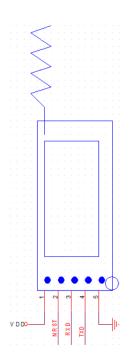
### **FEATURES**

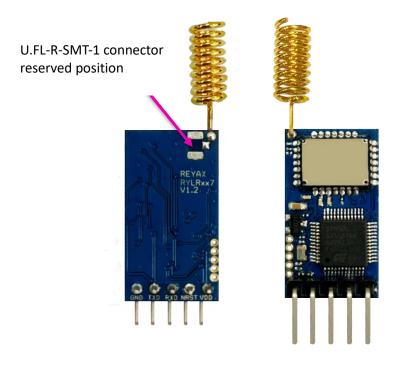
- Semtech SX1262 Engine
- · Excellent blocking immunity
- Low receive current
- Detect channel motion to set power-saving CAD reception mode on.
- High sensitivity
- Control easily by AT commands
- Built-in antenna
- AES128 Data encryption

## **APPLICATIONS**

- IoT Applications
- Mobile Equipment
- Home Security
- Industrial Monitoring and Control Equipment
- Car Alarm

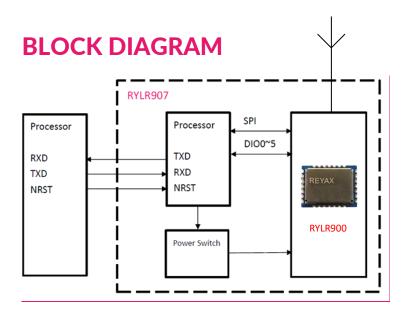
## **PIN DESCRIPTION**





Pin	Name	I/O	Condition		
1	VDD	I	Power Supply		
2	NRST	I	RESET(Active Low) 100K $\Omega$ Internal pull up, Pull down at least 100ms		
3	RXD	I	UART Data Input		
4	TXD	0	UART Data Output		
5	GND	-	Ground		

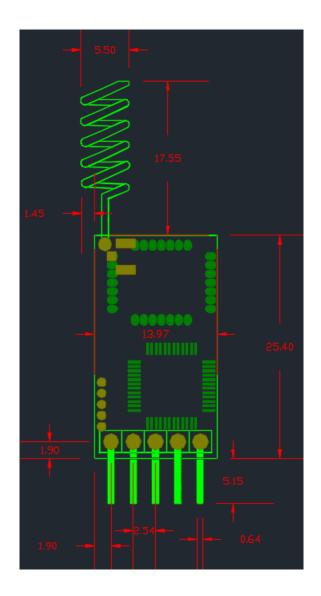




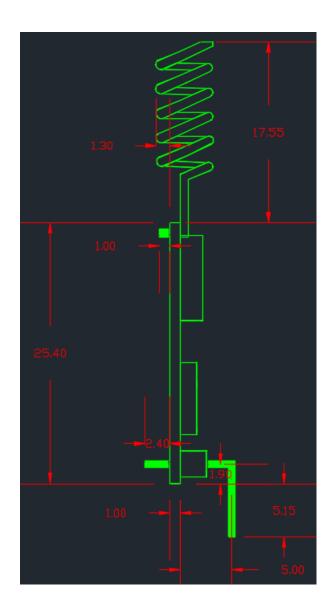
# **SPECIFICATION**

Item	Min.	Typical	Max.	Unit	Condition
VDD Power Supply	2	3.3	3.6	V	VDD
RF Output Power Range	-4		22	dBm	
Filter insertion loss	1	2	3	dB	
RF Sensitivity	-148			dBm	
RF Input Level			10	dBm	
Frequency Range	820	868/915	960	MHz	
Frequency Accuracy		±2		ppm	
Communication Range				KM	Depend on RF parameter
Transmit Mode Current		140		mA	RFOP = +22dBm
Receive Mode Current		10.4		mA	AT+MODE=0,
					AT+RXBOOST=1
		9.9		mA	AT+MODE=0,
					AT+RXBOOST=0
CAD Mode		2.3		mΑ	AT+MODE=2
Receive Current					
Sleep Current		0.5		uA	AT+MODE=1
Digital Input Level High	0.7*VDD		VDD	<b>V</b>	VIH
Digital Input Level Low	0		0.3*VDD	٧	VIL
Digital Output Level High	0.9		VDD	V	VOH
Digital Output Level Low			0.1	V	VOL
Cycling (erase / write)		300		K	Cycles
EEPROM data memory					
Weight		7		g	
Operating Temperature	-40	25	+85	°C	

# **DIMENSIONS**



Unit:mm



Unit: mm



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http://reyax.com