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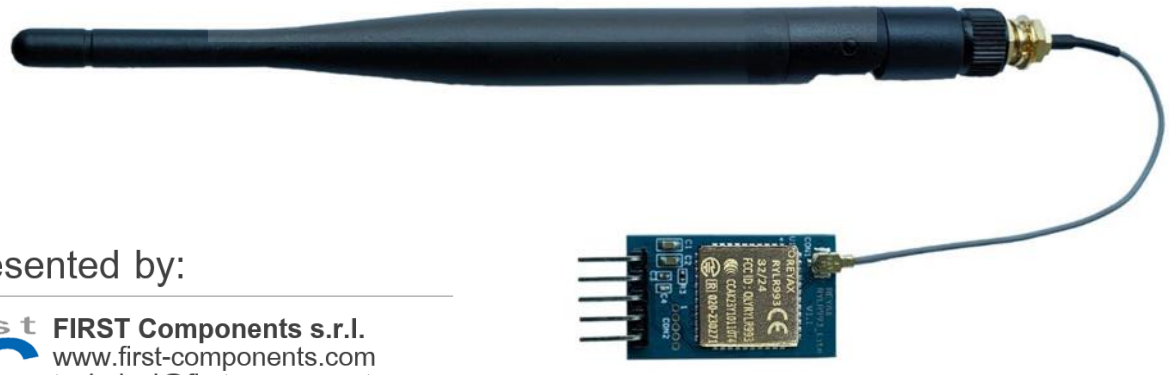
15-NOV-2024 56312E32

RYLR993_Lite

868/915MHz LoRaWAN® & Proprietary Transceiver Module

Lite Evaluation Board

Datasheet



Represented by:

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PRODUCT DESCRIPTION

The RYLR993_Lite 868/915MHz LoRaWAN® & Proprietary 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

- ST STM32WLE5CCU6 256KB flash Industrial LoRa® SOC Engine.
- Customized firmware design service is available.
- AT Command over UART interface
- High sensitivity.
- Temperature sensor.
- Low power consumption.
- AES128 CCM Data encryption
- LoRaWAN® class A, B & C support
- LoRaWAN® and LoRa® Proprietary selection.
- Support bands : US915, EU868, AS923, IN865, KR920, RU864
- Support REYAX RYLR998 proprietary mode

APPLICATIONS

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

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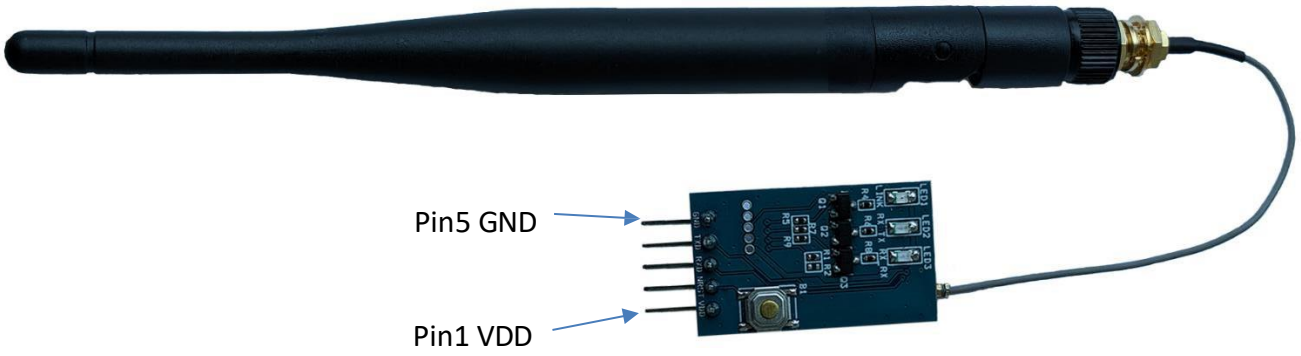
SPECIFICATION

Item	Min.	Typical	Max.	Unit	Condition
VDD Power Supply	3	3.3	3.6	V	
VBAT Power Supply	2.7	3.3	3.6	V	
Frequency Accuracy		±10		ppm	at 25°C ±3°C
RF Output Power Range	-4	20	22	dBm	
RF Harmonic			-36	dBm	
RF sensitivity	-148			dBm	
RF Input Level			10	dBm	
Filter insertion loss	1	2	3	dB	
Frequency Range	820	868/915	960	MHz	
Transmit Current		140		mA	RFOP = +22 dBm
Class A Current		5		uA	
Class B & C Current		5		mA	
Baud rate		9600		bps	8, N, 1
Temperature sensor Accuracy		2		°C	
Digital input level high	0.8		VDD	V	VIH
Digital input level low			0.2	V	VIL
Digital output level high	0.9			V	VOH Imax = 1 mA
Digital output level low			0.1	V	VOL Imax = -1 mA
Operating Temperature	-40	25	+85	˚C	

***For more detail, please refer to the REYAX RYLR993 information.**

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PIN DESCRIPTION

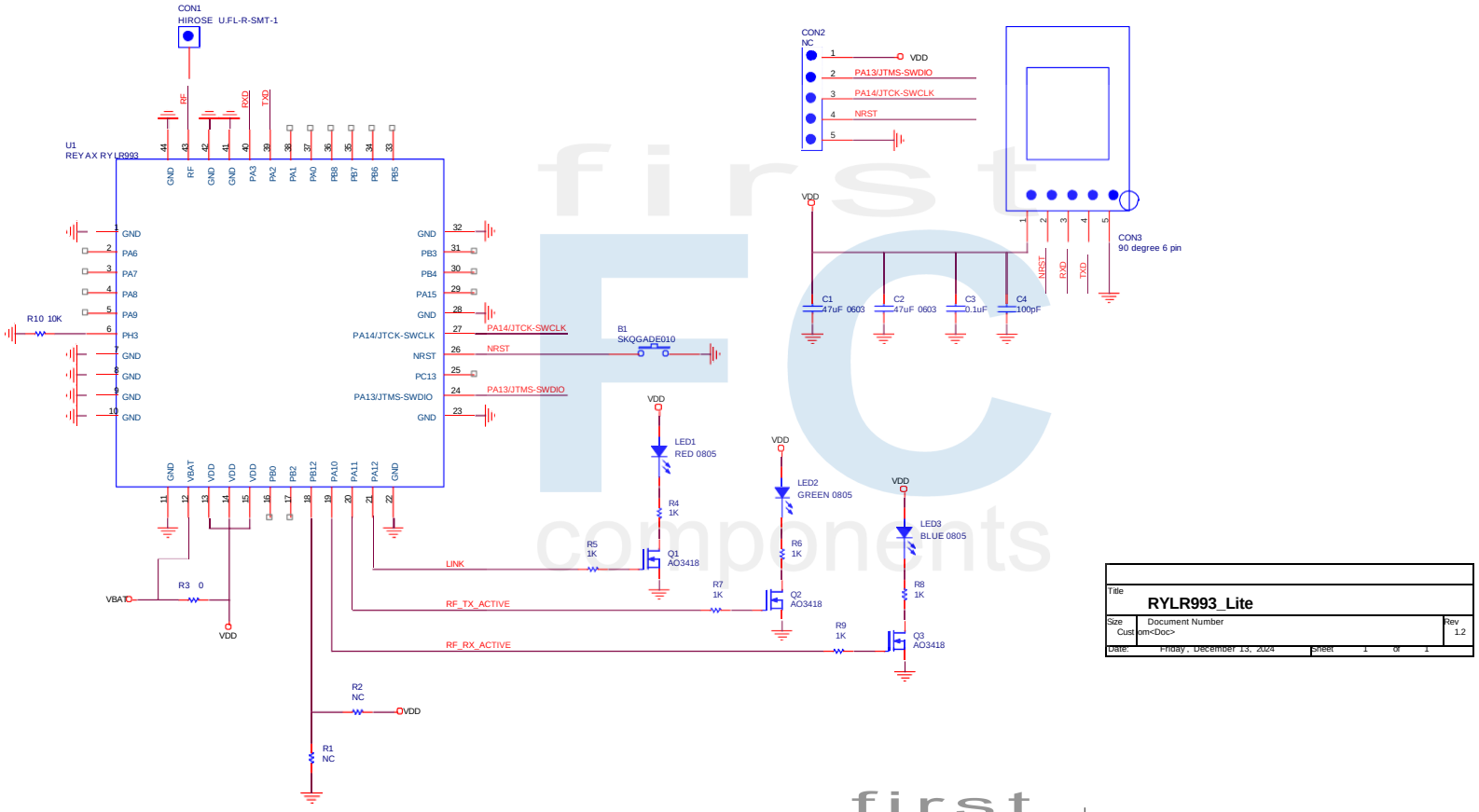


Pin	Name	I/O	Condition
1	VDD	I	Power Supply
2	NRST	I	Low reset trigger input
3	RXD	I	UART Data Input
4	TXD	O	UART Data Output
5	GND	-	Ground

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RYLR993_Lite SCHEMATIC



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