

DTDS

DTDS-622C LoRa® Modem

The DTDS-622C Modem is built based on SEMTECH® SX1262 LoRa® modulation transceiver and is controlled by RENESAS RL78 G13 family microcontroller running the LoRaWAN® stack. The modem is easily interfaceable to a host controller over AT commands.

The DTDS-622C LoRa®- modem with a long range and with a low power enables a long battery life. The modem operates in the Industry Scientific and Medical (ISM) frequency band available for free use. The DTDS-622C is FCC-certified thereby simplifying the end product certification process.

FCC ID: 2AXXTDTS-622C-LORA

WPC: ETA-SD-20210302166



Features:

- Supports LoRaWAN Class A, Class B and Class C
- Antenna matching network for a 50 Ohms termination is provided as a part of the module.
- Operating Temperature range -40 deg C to +85 deg C
- Module comes with DevEUI embedded and with a QR code marking

Technical Specifications:

	Parameters	Typical Specifications	Units	
Mechanical Specification	Size	15(W) X 27(L) X 3.0(H)	mm	
	Package	26 pins, SMD	-	
Electrical Specification	Power Supply	+2.4 to +3.6 (Nominal)	V	
	Sleep current	< 4	uA	
	TX Current	140 mA @22 dBm	mA	
	RX Current	<7 mA	mA	
	Programmable Data Rate	0.3 to 5.0 (LoRaWAN)	Kb/s	
	RF Interface	RFIO single ended, 50 ohm	-	
	Programmable Operating frequency	863 to 870 (Band 868), 902 to 928 (Band 915)	MHz	
	TX Output Power	22 (Programmable from 10dBm)	dBm	
	Sensitivity		-137dBm @SF12	dBm
			-124dBm @SF7	dBm
RF interface	UFL connector, or External Antenna	-		
Interfaces	UART	UART_TX, UART_RX – for AT commands	-	
	I2C	I2C_SCL, I2C_SDA		
	ADC	10 bit, 2 channels	-	
	GPIO	2		
	Host interface available via AT commands over UART			

For more details please contact:

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