

DW-700 User Manual

PRODUCT 2.4GHz Wireless Digital Transceiver Module

MODEL NO. DW-700

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普行科技股份有限公司

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DW-700 2.4GHz Wireless Digital Transceiver Module

FCC Compliance Information1

This device complies with Part 15 of FCC Rules and RSS-Gen of IC Rules.

Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference, and
- 2) This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment contains module , FCC ID LE2DW700, which qualifies as an UNLICENSED MODULAR TRANSMITTER per FCC Public Notice DA 00-1407. It has been tested and found to comply with Part 15.247 of the FCC Rules. This module has been designed for use by the JSW Pacific Corp.

Required labeling.

Any device incorporating this module must include an external, visible, permanent marking or label which states:

“Contains FCC IDLE2DW700.”

Failure to comply with this requirement will void the user’s authority to operate any device that incorporates this module.

This equipment complies with FCC/IC radiation exposure limits set forth for uncontrolled equipment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that it is deemed to comply without testing of specific absorption ratio(SAR).

Features

- Auto ACK & retransmit
- On the air max. data rate 2Mbps
- Digital interface (SPI) speed 0~8 Mbps
- Software selectable channel form 2402~2478MHz (39 Selectable channels)
- Short switching time enable frequency hopping
- Power supply range:3.6V
- Minimum number of external component
- Low power consumption: 3.6V, 50mA
- Transmission distance: 150 m (Line of sight)
- Outline: 23.2 x 20.8 x 4.3 mm
- CE 300 328 and FCC 15.247 certificated

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Applications

- Keyless Entry
- Wireless data communication
- Alarm and security systems – Wireless home security, Video Door Bell, Video door phone
- Home automation
- Surveillance – Wireless P-CAM, Video Baby Monitor
- Automotive – Wireless Vision-Based Robotic System, Automotive Accessory
- Intelligent sports equipment, Video Rockie-Talkie
- Toys – Camera Radio Controlled Toy

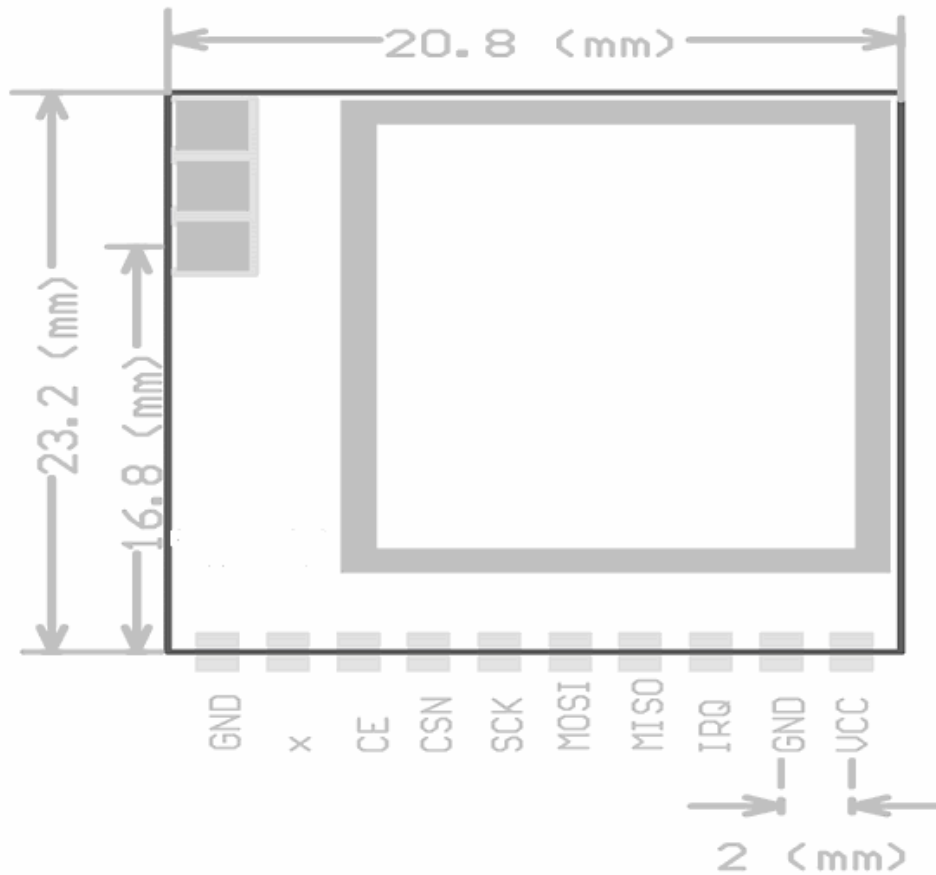
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Specification

Parameter	Limits			Unit
	MIN	TYP	MAX	
Power Section				
Supply Voltage	3	3.3	3.6	V
Supply Current in Tx mode	30	34	38	mA
Supply Current in Rx mode	17	18	19	mA
Digital Input Section				
High level input voltage	2.1	-	2.25	Vp-p
Low level input voltage	0	-	1.1	Vp-p
Digital Output Section				
High level output voltage	2.7	-	3.6	Vp-p
Low level output voltage	0	-	0.3	Vp-p
RF Section				
Frequency Range	2402	-	2478	MHz
Modulation Type	GFSK			
Channel Bandwidth	2			MHz
Conducted TX Power	9	12	14	dBm
RX Sensitivity	-72			dBm
Operation				
Operating Temperature	-20	-	+50	°C

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Pin Description



No.	Symbol	Function
1	VCC	Power Supply
2	GND	Ground
3	IRQ	Maskable interrupt pin
4	MISO	Master Input, Slave Output (output from slave)
5	MOSI	Master Output, Slave Input (output from master)
6	SCK	Serial Clock (output from master)
7	CSN	Chip Select
8	CE	Chip Enable Activates RX or TX Mode
9	x	x
10	GND	Ground