



EWTJ680G-I RFID Reader

Data Processing Device

(Revision 1.01)

East Wind Technologies, Inc.

November 7, 2018



- Support ISO 14443A/B, ISO 15693, FeliCa Lite-S (RCS966)
- Support ISO-DEP(ISO 14443-4)
- 13.56 MHz (± 20 PPM)
- 5V (± 0.5 V)
- 110mA (± 10 mA)
- Detect Distance: 5.5cm (± 0.5 cm, ISO 14443A (MF1 IC S50))
- Interface: UART, SPI
- RF cable max. Length: 5m
- Storage Temperature: $-40^{\circ}\text{C}\sim 95^{\circ}\text{C}$
- Operating Temperature: $-30^{\circ}\text{C}\sim 85^{\circ}\text{C}$
- Operating humidity: 90% non-condensing
- Baud Rate: 19,200bps



Work Usage : Obtaining the handling data via radiofrequency communication with the card.

Encrypt: : Yes

Working Introduction: The main chip of EWTJ680G-I device is NXP CL RC966302 & C8051F381 ◦

J5 is power supply and data transmission ◦

C8051F381 is used to control NXP CL RC966302, proceeding in the mutual Authentication via radiofrequency communication with the card.

Obtaining the output data via radiofrequency and proceeding with the necessary result.

And then from J5 to output the outer device.



Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

FCC INFORMATION The Federal Communication Commission Radio Frequency Interference Statement includes the following paragraph:

The equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communication. However, there is no grantee that interference will not occur in a particular installation. If this equipment dose cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

"This device complies with part 15 of the FCC 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."