

**WARNING!** This Module is to be installed only in Excel Engineering (HK) Co., Ltd end products by authorized subcontractor personnel, and shall not be offered to 3rd party OEM integrators or the general public.

**NOTE:** This 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 instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does 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 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.

**Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment**

The RF Module is labeled with its own FCC ID Number and the FCC ID is not visible when the module is installed inside your product. The outside of the device into which the module is installed will display a label referring to the enclosed module. This exterior label will be as the follows:

**Contains Transmitter Module FCC ID: OWGX020**

**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.**

## Specifications

1	Transmitter Frequency	2458MHz (Single CH)
2	Radio Wave Form	F1D
3	Antenna Input Power	-0.5±3dBm
4	Antenna	$\lambda/4$ Sleeve ANT
6	Baud Rate	250kbps
7	Modulation System	GFSK
8	GP-IO	7 ports
9	UART	1 CH (9600bps)
10	Power Supply Voltage	+1.9V~+3.6V (Std. +3.0V)
11	Current Consumption	TX mode: 11.1mA RX mode : 12.4mA
12	Operation Temperature	0 ~ +40°C
12	Storage Temperature	-10 ~ +60°C
13	Outline Dimension	22 × 95 × 3 (mm) (Except Antenna)
14	Weight	2.5g
15	FCC ID	OWGX020

## Installation

1. This module is to be fixed to the main PCB by soldering directly.
2. The reflow soldering is not recommended due to the risk of damaging the performance.