

## RE730

### User manual

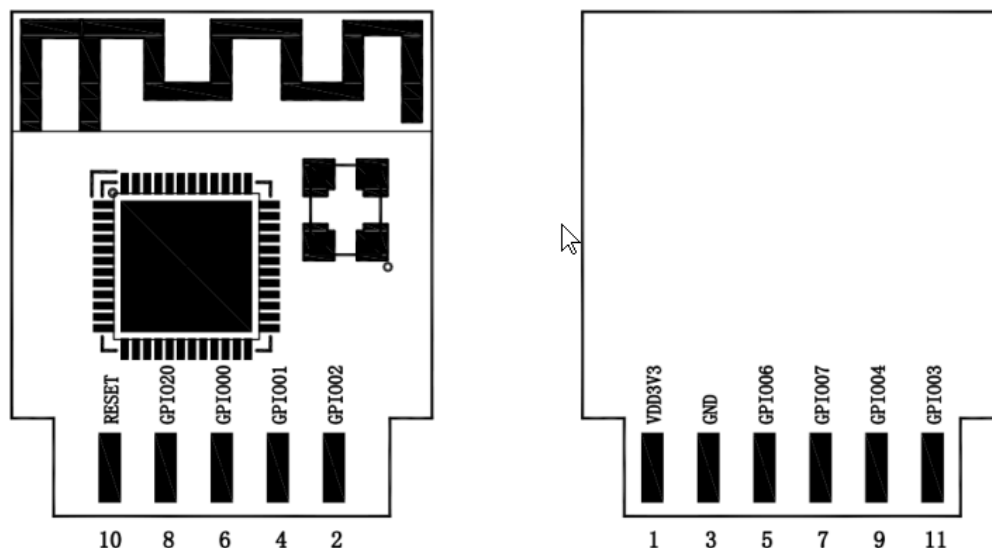
#### Product Description

The RE730 is the latest low-power Simple-Chip WIFI SV6166F chip design in Southern Silicon Valley, Adopt advanced design technology to achieve low power consumption and high throughput; A WLAN MAC, Baseband, RF is integrated on the hardware of the module chip internal integration MCU, main frequency 160MHz Built-in 192K SRAM and 128K ROM, Working at 2.4 GHz, support 802.11 b/g/n wireless standards.

#### Product Features

- Working Frequency : 2400MHz-2483.5MHz
- Support 802.11b/g/n
- Support HT20/HT40
- Support STA/AP work mode
- Support WEP,WPA/WPA2
- Integration 16Mbit SPI flash

#### Pin Functions



Pin No.	Name	Functions Description	Note
1	VDD33	VCC 3.3V	3.1-3.6V
2	GPIO 02	PWM 2 / GPIO	PWM(0-20KHz)
3	GND	Power reference ground	
4	GPIO 01	PWM 1 / GPIO	PWM(0-20KHz)
5	GPIO 06	UART1_RXD / GPIO	
6	GPIO 00	PWM0 /ADC3 / GPIO	PWM(0-20KHz)
7	GPIO 07	UART1_TXD / GPIO	
8	GPIO 20	I2S0_MCLK /ADC2/GPIO	ADC(0-1014mV)
9	GPIO 04	PWM4/ UART0_TXD / GPIO	PWM(0-20KHz)
10	RERST	Reset interface,low level effective	

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11	GPIO 03	PWM3/ UART0_RXD / GPIO	PWM(0-20KHz)
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Note:The host interface is designed strictly according to the module interface and installed into the host product.

### Product Specification

<b>Product model</b>	RE730
<b>Frequency Band</b>	b/g/n20:2412-2462MHz n40:2422-2452MHz
<b>Modulation mode</b>	802.11b: CCK, DQPSK, DBPSK 802.11g: 64-QAM,16-QAM, QPSK, BPSK 802.11n: 64-QAM,16-QAM, QPSK, BPSK
<b>Wireless transmissions</b>	802.11b: 1, 2 ,5.5,11Mbps 802.11g: 6,9,12,18,24,36,48,54Mbps 802.11n: MCS0~7, HT20 reach up to72.2Mbps ; HT40 reach up to150 Mbps
<b>Operation mode</b>	Infrastructure, Ad-Hoc
<b>Security mechanism</b>	WEP,WPA/WPA2
<b>Operating Voltage</b>	3.3V
<b>Antenna Type</b>	PCB Antenna
<b>Operating Temperature</b>	0 ~ 60° C
<b>Storage Temperature</b>	-40 ~ 80° C
<b>Humidity</b>	5 to 95 %

### FCC Caution:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### FCC RF Radiation Exposure Statement:

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with RF radiation exposure limits set forth for an uncontrolled environment.
- 3.This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.

Host product manufacturers that they need to provide a physical or e-label stating, "Contains FCC ID:2AYCN-RE730 with their finished product.

Only those antennas with same type and lesser gain filed under this FCC ID can be used with this device.

The host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification. The final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed.

## **FCC ID: 2AYCN-RE730**

The final host integrator must ensure there is no instruction provided in the user manual or customer documentation indicating how to install or remove the transmitter module except such device has implemented two-ways authentication between module and the host system. 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.

This module has been tested and found to comply with part 15.247 requirements for Modular Approval.

This module is intended for OEM integrator. The OEM integrator is responsible for the compliance to all the rules that apply to the product into which this certified RF module is integrated. Additional testing and certification may be necessary when multiple modules are used.