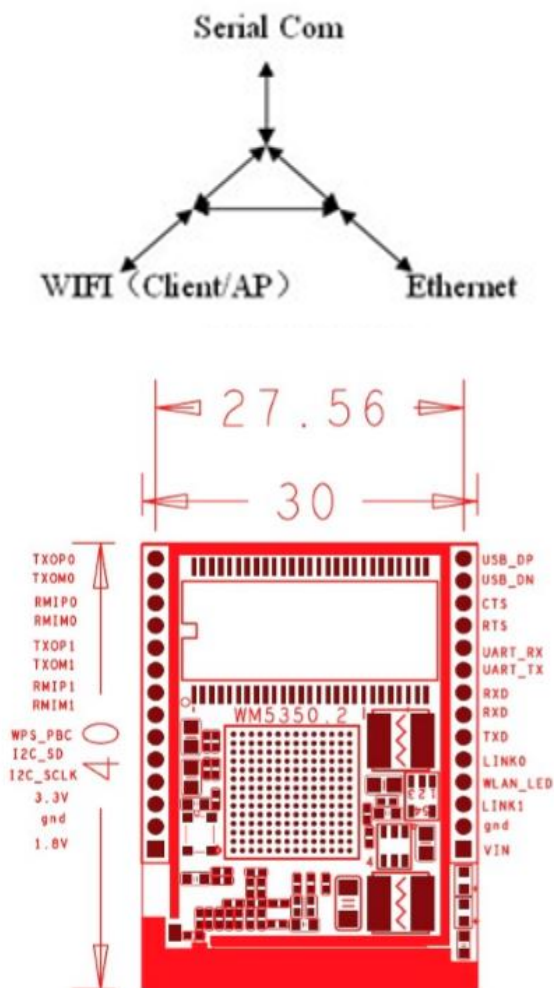# WIFI AP wireless router module

Product Description:

WF5350 new source communication module is the latest low-cost embedded Ethernet - Wireless WIFI module; with low power consumption, small size, industrial design and other advantages. RALINK module is Taiwan's RT5350 wireless SOC chip, high integration, good stability. RT5350 chip built-in 360MHz MIPS CPU, wireless baseband, RF front end and a variety of peripheral bus. Based on IEEE 802.11b / g / n standard, providing up to 150Mbps data transfer. Can be set to work in Client / AP / Router mode can also be used in Serial to WIFI, serial-to-Ethernet cable. Further pins can be extended through Ethernet, USB, I2S, I2C, SPI, UART interfaces.

This product is based on the universal serial interface conforms to the network standard embedded modules, built-in TCP / IP protocol stack, user port can be realized, three conversion interface between Ethernet, wireless network (Wifi). By WF5350 module, the traditional serial device without requiring any configuration changes to the situation, you can through the Intenet own data transmission network. For users serial devices provide a quick solution to transfer data via Ethernet.

Serial Com

WIFI (Client/AP)   Ethernet

27.56

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TXOP0	USB_DP
TXOM0	USB_DN
RMIP0	CTS
RMIM0	RTS
TXOP1	UART_RX
TXOM1	UART_TX
RMIP1	RXD
RMIM1	RXD
WPS_PBC	TXD
I2C_SD	LINK0
I2C_SCLK	WLAN_LED
3.3V	LINK1
gnd	gnd
1.8V	VIN

WM5350.2

Pin 2.0mm pitch:

PIN	NET	I / O direction	Explanation
1	Vdd5v	POWER	Power 5V input
2	GND	GND	GND
3	LINK1	I/O	Ethernet port 2 LED signal
4	WLAN_LED	I/O	Wifi LED signal
5	LINK0	I/O	1 LED signals Ethernet port
6	TXD	O	Full-function serial TX
7	RXD	I	Full-function serial port RX
8	RXD	I	Full-function serial port RX
9	UART_RX	I	Simple serial port RX
10	UART_TX	O	Simple serial port TX
11	RTS	I	full-function serial port RTS
12	CTS	O	Full-function serial port CTS
13	USB_DM		USB Signal
14	USB_DP		USB Signal
15	TXOP0	I / O	Interface 1 TX-P
16	TXOM0	I / O	Interface 1 TX-N
17	RXIP0	I / O	Interface 1 RX-P
18	RXIM0	I / O	Interface 1 RX-N
19	TXOP1	I / O	Interface 2 TX-P
20	TXOM1	I / O	Interface 2 TX-N
21	RXIP1	I / O	Interface 2 RX-P
22	RXIM1	I / O	Interface 2 RX-N
23	WPS_PBC		
24	I2C_SD		I2C_DATA
25	I2C_SCLK		I2C_CLK
26	VDD3.3V	POWER vOUT	3.3V Output
27	GND	GND	GND
28	VDD1.8V	POWER vOUT	1.8V Output

Specifications:

WIFI mode	Client / AP / Router
WDS function	Supports WDS wireless bridge
Wireless Security	Wireless MAC address filtering
	Wireless security function switch
	64/128/152 bit WEP encryption
	WPA-PSK / WPA2-PSK, WPA / WPA2 security mechanism
Network management	Remote Web Administration
	Configuration import and export files
	WEB software upgrade

Other parameters:

Status Indicator	Module status indicator
Environmental standards	Working temperature: -20 --- 70
	Humidity: 10% --- 90% RH (non-condensing)
	Storage temperature: -40 --- 80
	Storage humidity: 5% --- 90% RH (non-condensing)
Other properties	Bandwidths selectable: 20MHz, 40MHz, automatic