

USR-W610 VS WIFI232-610 V2 Comparison

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Overview

USR-W610 is developed to replace USR-WIFI232-610 V2. This manual is mainly to introduce differences between W610 and 610 V2. Product appearance diagrams as follows:



Figure 1 USR-W610



Figure 2 USR-WIFI232-610 V2

1. Basic parameters

	USR-W610	USR-WIFI232-610 V2
Hardware parameters		
Serial port	RS232*1 RS485*1	RS232*1 RS485*1
Working voltage	DC 5V~36V	DC 5V~18V
Working Temp.	-40°C~85°C	-40°C~85°C
Storage Temp.	-40°C~125°C	-40°C~125°C
Storage humidity	5%~95% RH	
Dimension	86*82.5*25mm(L*W*H)	84*84*25mm(L*W*H)
Wireless parameters		
Wireless standard	802.11 b/g/n	
Frequency range	2.412GHz-2.484GHz	
Transmitting power	802.11b: +19dBm(Max.@11Mbps)	802.11b: +19dBm(Max.@11Mbps)
	802.11g: +18dBm(Max.@54Mbps)	802.11g: +18dBm(Max.@54Mbps)
	802.11n:+17dBm(Max.@HT20,MCS7) +17dBm(Max.@HT40,MCS7)	802.11n: +17dBm(Max.@HT20,MCS7) +17dBm(Max.@HT40,MCS7)
Receiving sensitivity	802.11b: -89dBm (@11Mbps)	802.11b: -89dBm (@11Mbps)
	802.11g: -81dBm (@54Mbps)	802.11g: -81dBm (@54Mbps)
	802.11n: -73dBm (@HT20,MCS7) -71dBm (@HT40,MCS7)	802.11n: -73dBm (@HT20,MCS7) -71dBm (@HT40,MCS7)
Antenna	SMA external antenna	

Figure 3 Basic parameters

2. Hardware

2.1. Interface

USR-W610 and USR-WIFI232-610 V2 interface diagrams as follows:



Figure 4 USR-W610 interface



Figure 5 USR-WIFI232-610 V2 interfaces

2.2. LED

USR-W610 and USR-WIFI232-610 V2 LED diagrams and LED functions as follows:



LED	Description
Power	Power LED will light after powering the module successfully
Ready(610 V2)	Ready LED will light after module starting normally
Work(W610)	Work LED will blink every two seconds if module works normally.
Link	Link LED will light after establishing WIFI connection
TXD	TXD LED will blink when module sends data from serial side
RXD	RXD LED will blink when module's serial side receives data

Figure 6 LED

3.Functions

	USR-W610	USR-WIFI232-610 V2
WIFI		
WIFI mode	AP/STA/AP+STA(in AP or AP+STA mode, AP interface supports at most 24 STA connections)	
Encryption mode	WPA-PSK/WPA2-PSK/WEP	
Work mode		
Transparent transmission mode	Support(Two sockets. Socket A supports TCP Server, TCP Client, UDP Server, UDP Client. Socket B supports TCP Client. TCP Server mode supports at most 24 TCP Client connections)	Support(Two sockets. Socket A supports TCP Server, TCP Client, UDP Server, UDP Client. Socket B supports TCP Client. TCP Server mode supports at most 32 TCP Client connections)
AT command mode	Support	
HTTP Client mode	Support	
Serial port command mode	Support	
Modbus TCP<=>Modbus RTU mode	Support	Don't support
Serial port		
Baud rate	300, 600, 1200, 1800, 2400, 4800, 9600, 19200, 38400, 57600, 115200, 230400, 345600, 460800	
Data bits	5, 6, 7, 8	
Stop bits	1, 2	
Parity	NONE, EVEN, ODD	
Flow control	Support hardware flow control	
Baud rate synchronization	Support	
Features		
Search in LAN	Support	
Identity packet	Support MAC, user editable, USR Cloud identity packet	Support MAC, ID, user editable, USR Cloud identity packet
Usrlink	Support	
Heartbeat packet	Support	
Keep-Alive	Support	
Websocket	Support	
Web Server	Support	

Figure 7 Functions

4.Contact Us

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5.Disclaimer

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6.Update History

2018-01-19 V1.0.0 established.