

## ***RW8300E Serial Port Series***



RW8300E (-CRSA)  
RW8300E (-CRSS)



RW8300E-NL (-CRSA)  
RW8300E-NL (-CRSS)



**RoHS**

Compliant

### **Main Features**

- Anti-hacking for Data Cyber Security
- Easy Plug & Play
- Factory Pre-Paired
- Log in without Password

### **Application:**

**WiFi/Ethernet Real Time Data Transferring**

- Smart Meter
- Smart Medical Device
- Smart Lift/Elevator
- Smart Factory (PLC, 48V)
- Many others that require Real Time Data Transferring.

### **Data that can be transferred**

- Text (Under WiFi through UR)
- Pictures below total 2M file volume (Under WiFi through UR)

-Video (Through Ethernet for Faster Speed as recommended)

### ***RW8300E-PR-CRS Series Quick Start Method***

The default setting of is "data pass through" mode at booting. Please following below Figure 15 to setup data pass through of environment.

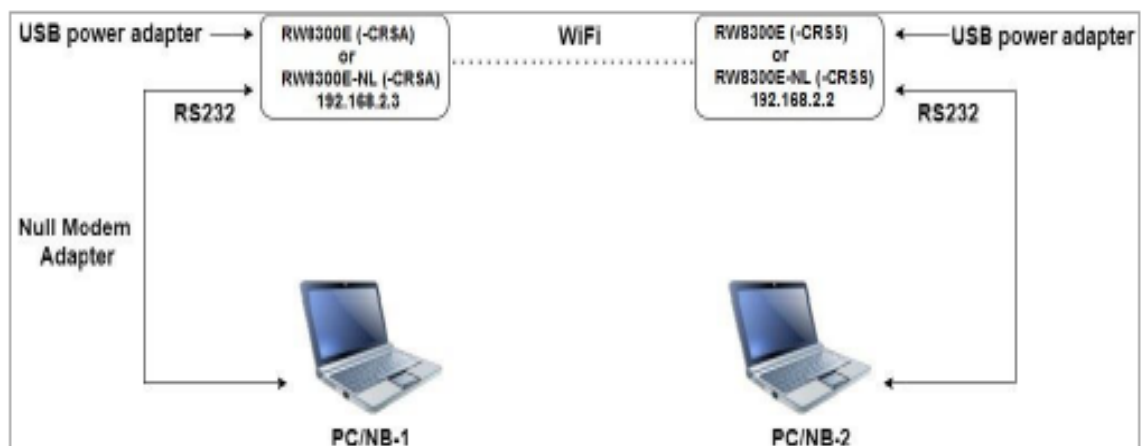


Figure 15 RW8300E (-CRSA/-CRSS)/RW8300E-NL (-CRSA/-CRSS) setup data pass through environment

Note: If RW8300E (-CRSS)/RW8300E-NL (-CRSS) is not connecting within 15 seconds, will return AT command mode.

Please follow as below step to start data pass through

Step 1: Open serial application under the PC/NB-1 and PC/NB-2 (ex: putty, minicom, or hyper-terminal), default terminal setting is "115200, 8, N, 1".

Step 2: Power on RW8300E (-CRSA)/RW8300E-NL (-CRSA), then wait for 45 second LED light, and PC/NB-1 display firmware version at terminal program.

Step 3: Power on RW8300E (-CRSS)/RW8300E-NL (-CRSS), then wait for 45 second LED light, and PC/NB-2 display firmware version at terminal program.

Step 4: Now, data pass through mode is completed. Type any character under terminal of PC/NB-1, the character will display at terminal of PC/NB-2, vice versa.

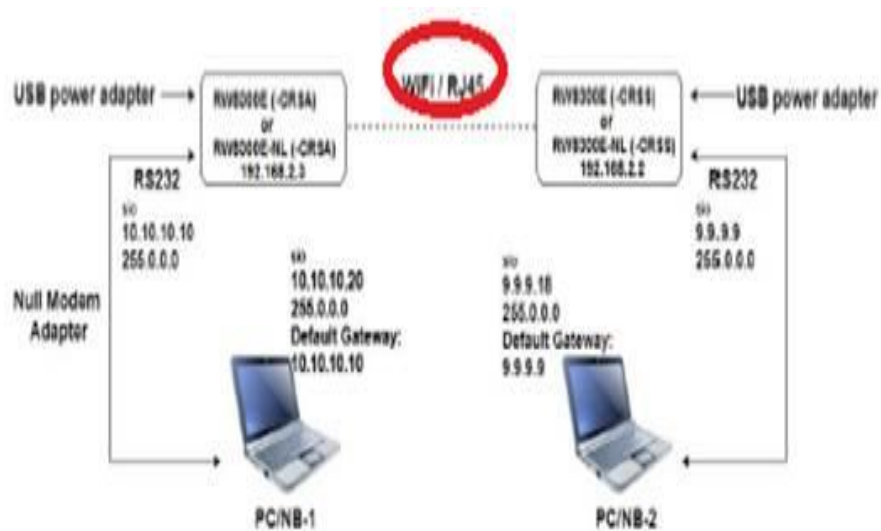


Figure 20 IP pass through setup environment

*The AP can connect to station via both Wireless & Wired Ethernet Solution*

## DATA PASS THROUGH MODE

### ***RW8300E (-CRSA)/RW8300E-NL (-CRSA) Data Pass Through by AT command***

RW8300E (-CRSA)/RW8300E-NL (-CRSA) supports data pass through from TCP to RS232 by AT command. Factory default setting to be a TCP server. When boot into system, TCP server will auto open.

**Please first check RW8300E (-CRSA) /RW8300E-NL (-CRSA) reset to default settings.** Follow as below steps to PC/NB-1 connect to RW8300E (-CRSA) /RW8300E-NL (-CRSA) TCP server.

Step 1: Follow as below Figure 1 to setup test environment. And power on RW8300E (-CRSA)/RW8300E-NL (-CRSA).

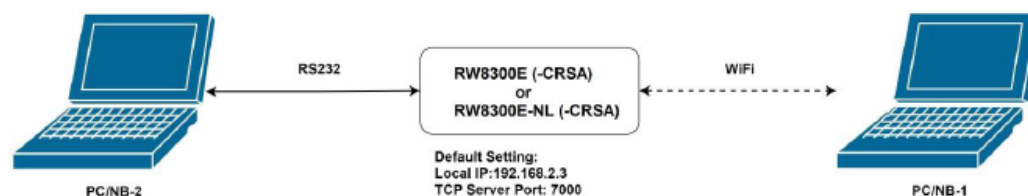


Figure 1 RW8300E (-CRSA)/RW8300E-NL (-CRSA) set up data pass through environment (Server)

## AUTO MODE

### ***RW8300E (-CRSA)/RW8300E-NL (-CRSA) Configuration Serial and TCP Service***

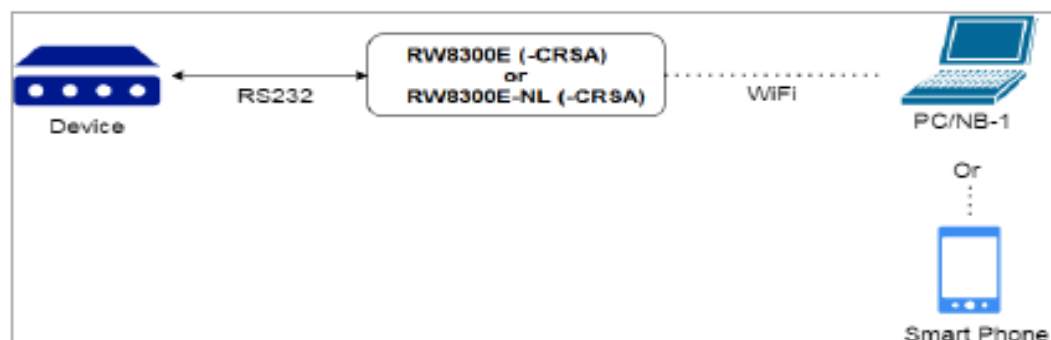
RW8300E (-CRSA)/RW8300E-NL (-CRSA) provides the website for configuration serial and TCP service parameters. User can configure baud rate, stop bit, parity type, character bits, flow control of RS232, and configure remote server port number, IP address and local server port number. And turn on or turn off "Auto Mode", "Auto Mode" is for auto open TCP service after boot into system.

Follow as below steps to setup RW8300E (-CRSA)/RW8300E-NL (-CRSA) parameters for serial and TCP service by web site.

**Note:** The following uses PC/NB Fedora 20 system as an example.

**It can also be a WiFi device with a browser**

Step 1: Follow as below Figure 10 to set up environment.



## 1. How to use to AT command

Follow below steps to use AT command :

Step 1: Follow

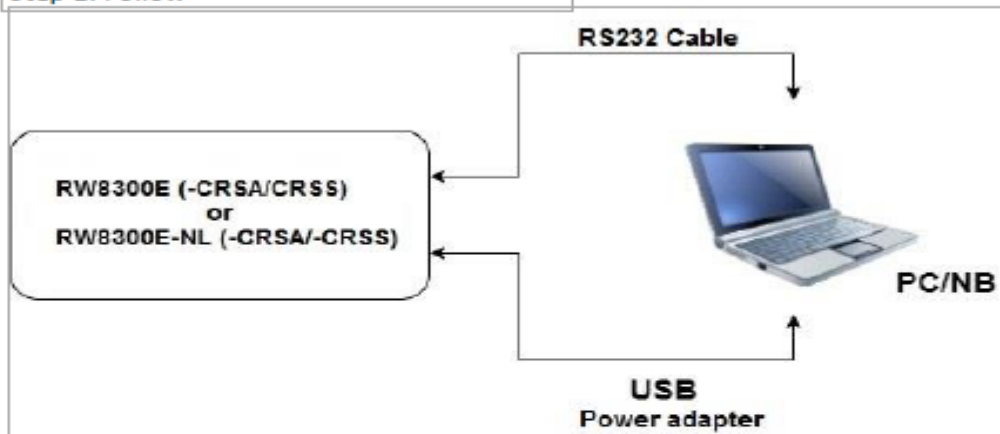


Figure 17

Environment Setup

Step 2: Power-on RW8300E (-CRSA/-CRSS)/ RW8300E-NL (-CRSA/-CRSS).  
Step 3: Open serial application under the PC/NB or other device (ex: putty, minicom, or hyper-terminal)  
Step 4: Follow Table 1 to set serial parameters of serial application.  
Step 5: Type "+++" to exit "data pass through mode".  
Step 6: Now, you can start using AT command under the serial application of system host. as shown in Figure 18.

We're sorry but due to Business confidential information that is not allowed to be revealed, we can't provide further deeper knowledge regarding this solution.

The "Designer Guide"(User Manual) can only be provided to the customer with samples on hand as one of our internal policies.

However, I'll still try to talk to our top management and then do some more detailed illustration for you and please allow me bit more time on it.