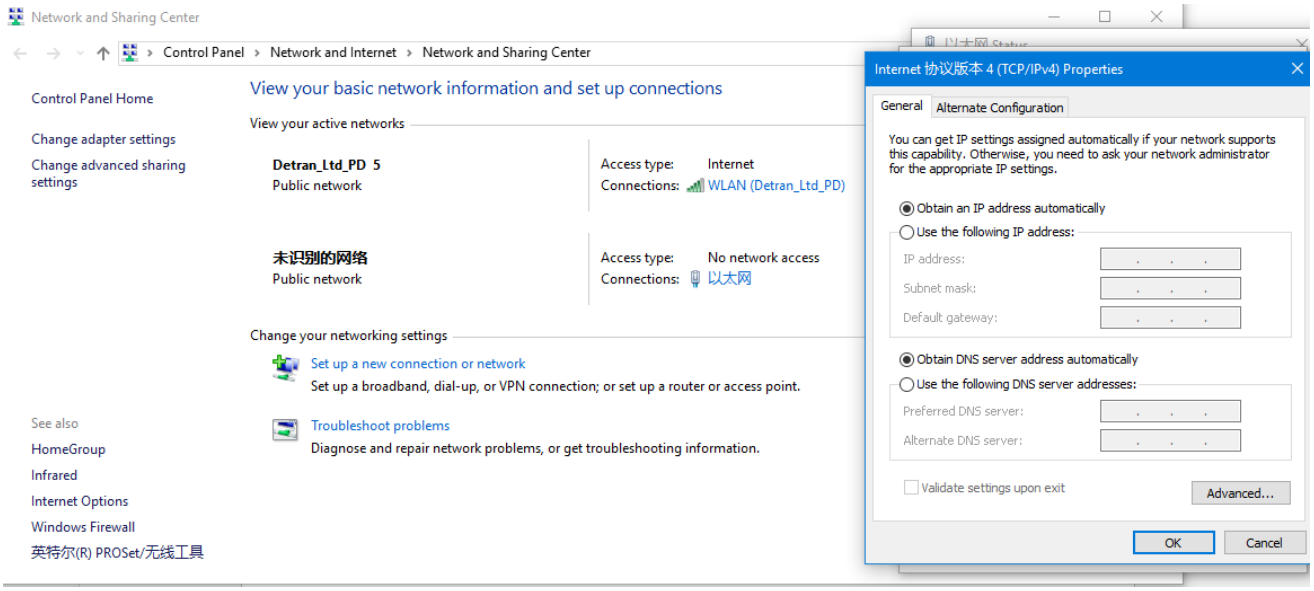
1. Connect the antenna to RT620 and insert a sim card, then power on the router

2. Connect sensors to the RT620

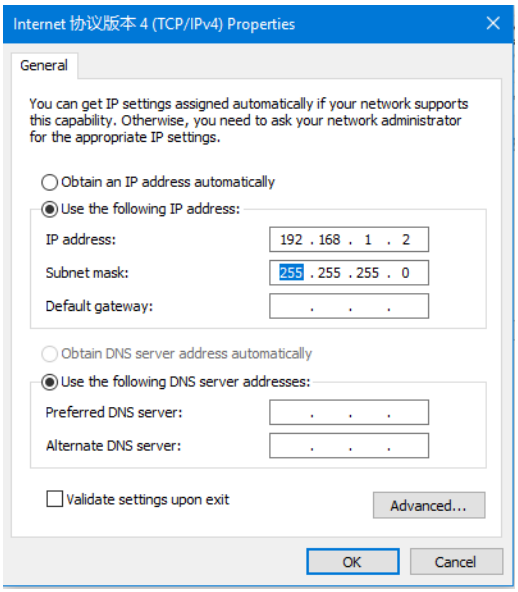
a) the light sensor connect to 485-A1, 485-B1, Vout+12V and GND interface
b) the wind speed sensor connect to 485-A2,485-B2, Vout+12V and GND interface
c) the humitity and temperature sensor connect to AI2, AI4, Vout+12V and GND interface.

3. Connect the router to your PC with a cable

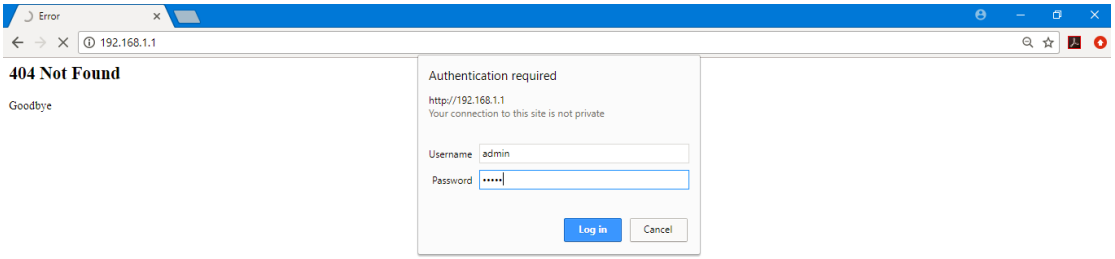
3.1 You can configure your PS as “Obtain an IP address automatically”



3.2 Or use a static address

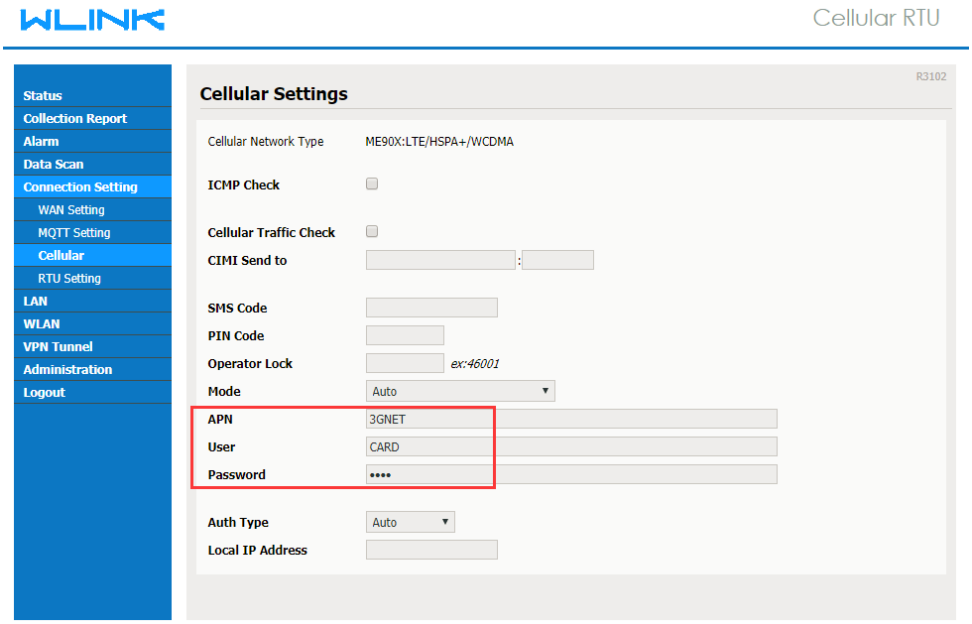


4. Access to http://192.168.1.1 with default account/pw: admin/admin

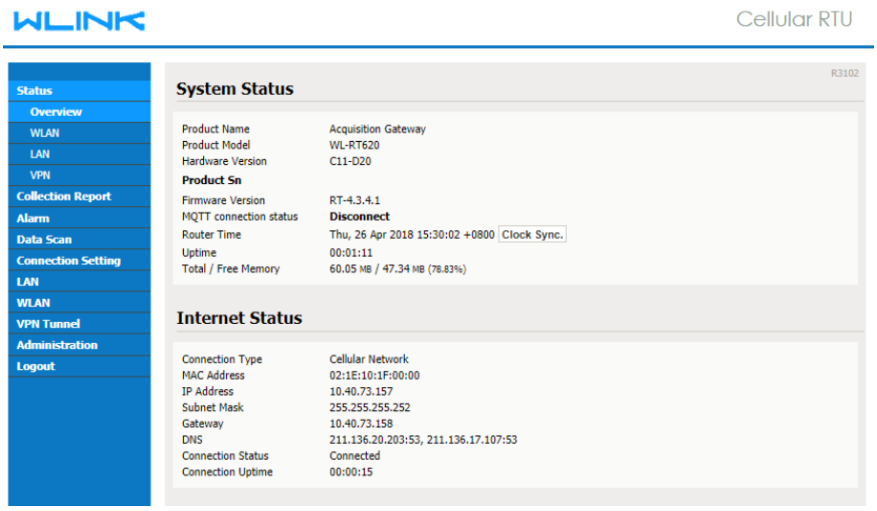


5. Modify the APN in the interface by going to ***Connection Setting > Cellular***

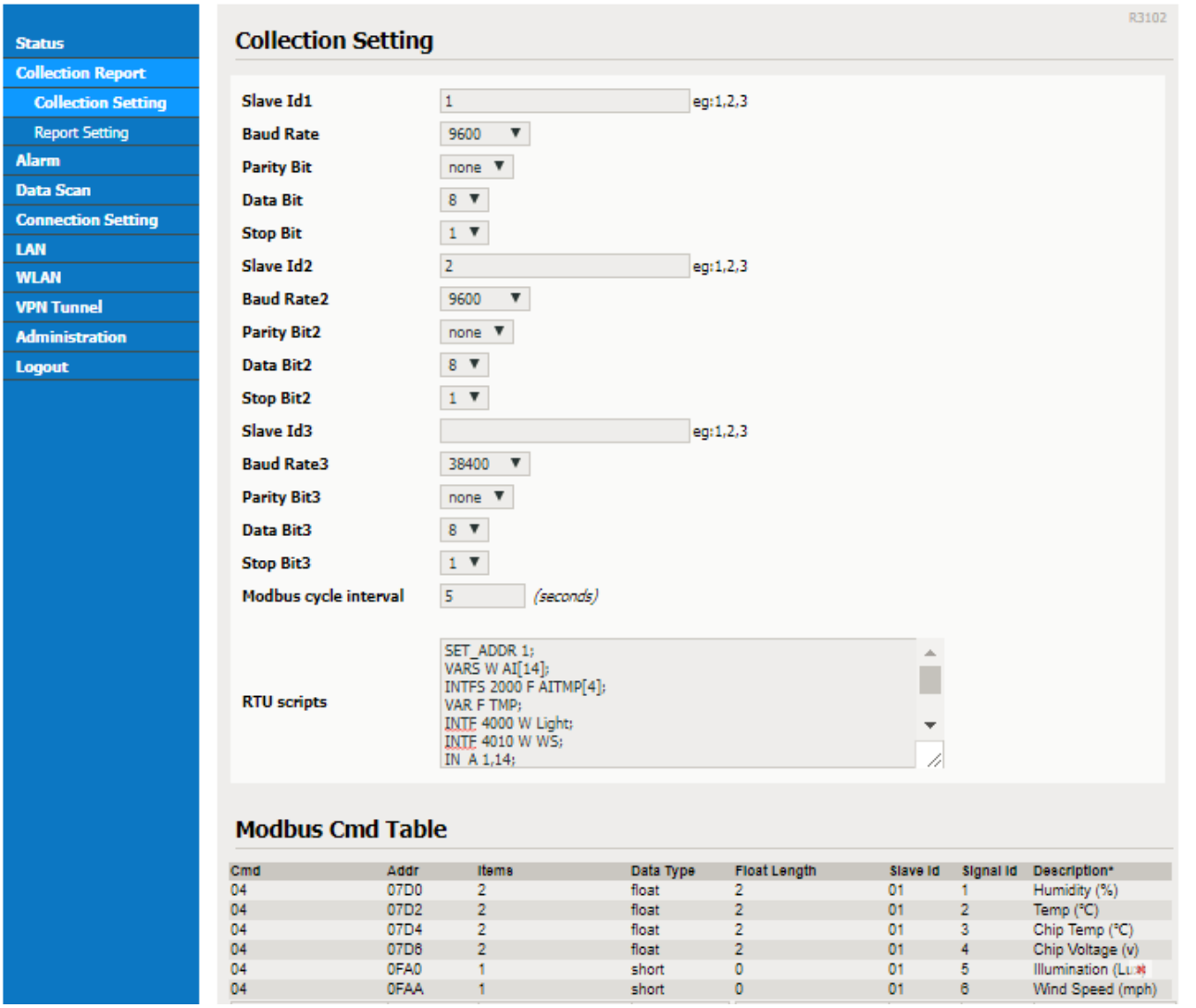
Note: The APN parameters are the same as your SIM card



6. Check the Internet Status



7. Navigate to ***Collection Report > Collection Setting***



Parameters	Instruction
Slave Id1	RS485 – A1B1 interface
Slave Id2	RS485 – A2B2 interface
Slave Id3	RS485 – A3B3 interface
Cmd	Modbus code (HEX)
Addr	Register address (HEX)
Itemes	The number of registers
Data Type	-
Float Length	-
Slave Id	Script ID
Signal Id	Data number
Description	Data name

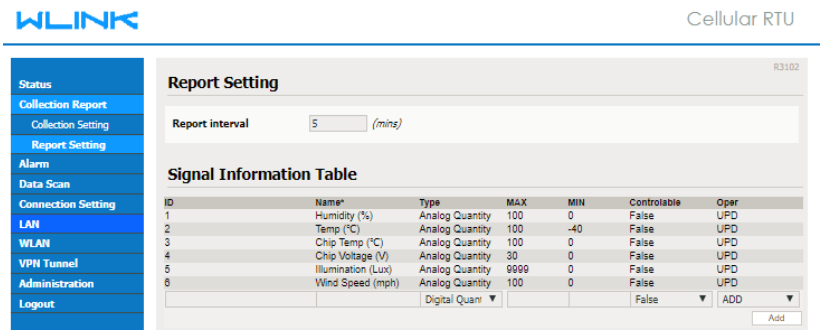
RTU Scripts

```
SET_ADDR 1;                    // Set the slave address of the TNTF variable to 1
VARS W AI[14];                 // Set a four-element double-byte integer array without assignment, AI[1]~AI[14]
INTFS 2000 F AITMP[4];         // Set a four-element four-byte floating-point array without assignment and register address is 2000~2003
VAR F TMP;                     // Set temporary variables for floating point process calculations.
INTF 4000 W Light;             // Set an unsigned double-byte integer without assignment and register address is 4000 (For light sensor)
INTF 4010 W FS;                // Set an unsigned double-byte integer without assignment and register address is 4010(For wind speed sensor)
IN_A 1,14;                     // Read the analog quantity from number 1 to 14
IN_UA_B Light,1,010300060001A,100;     // Read the analog data of light sensor via Modbus command
IN_UA_B WD,1,020300160001A,100;        // Read the analog data of wind speed sensor via Modbus command
CAL TMP = AI[2] / 4096 * 3.3 / 165 * 1000 - 4;     // Humidity calculation
CAL AITMP[1] = TMP / 16 * 100;
CAL TMP = AI[4] / 4096 * 3.3 / 176 * 1000 - 4;     // Temperature calculation
CAL AITMP[2] = TMP / 16 * 160 - 40;
CAL TMP = AI[13]*3.3/4096;                         // Router chip temperature calculation
CAL TMP = 1.42 - TMP;
CAL AITMP[3] = TMP*1000/4.35 +25;
CAL AITMP[4] = AI[14]/4096*3.3/2.4*26.7;           // Router chip voltage calculation
SLEEP 1000;                    //The interval for executing this script. (ms)
```

Note:

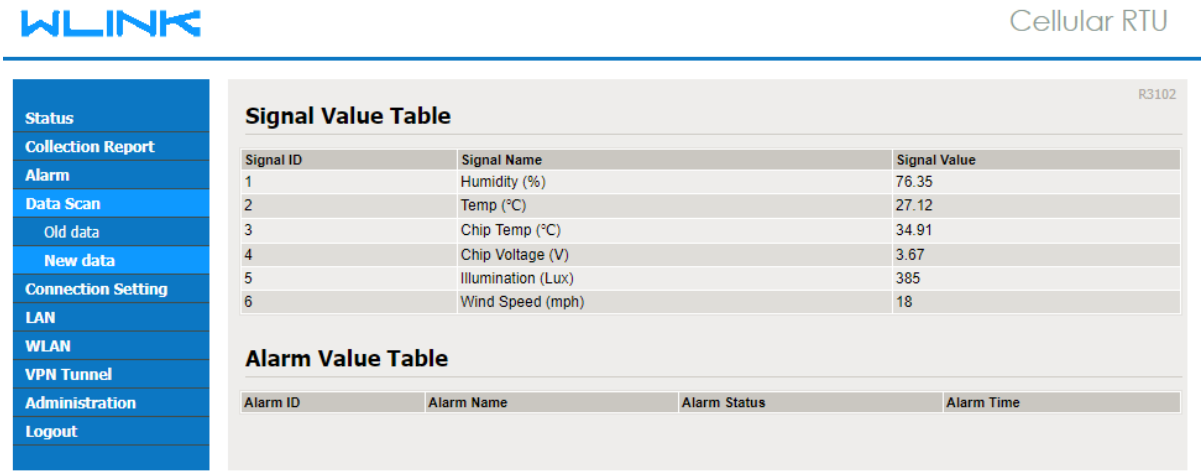
Parameter	Instruction
IN_UA_B SUN,1,010300060001A,100	The Modbus command for light sensor.
Light	The analog data of light sensor
1	Read one analog data
01	Address code
03	Function code
0005	Start address
0001	Data length
A	Check code
100	Set time out (ms)

8. Navigate to ***Collection Report > Collection Setting***



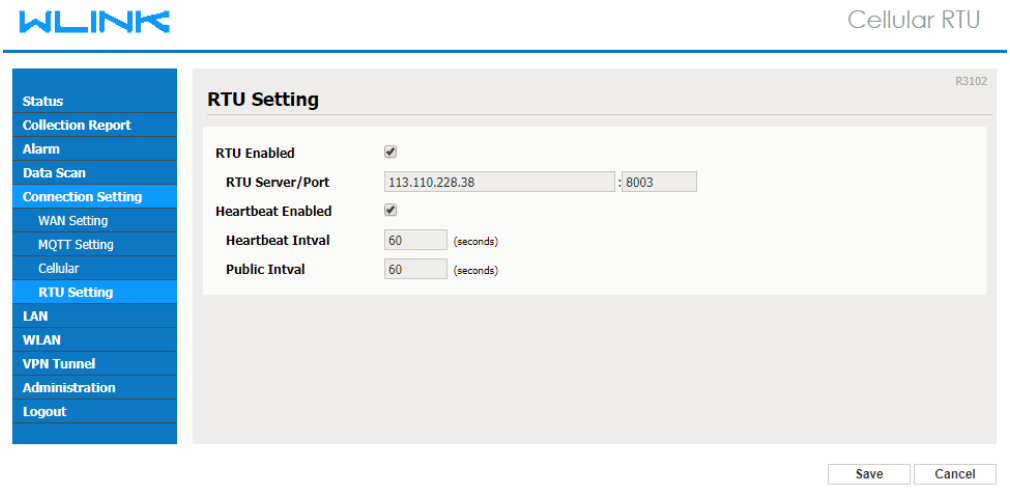
Parameters	Instruction
Report interval	Report data to M2M management platform
ID	Signal ID
Name	Keep the same as “Description” in the Modbus cmd table
Type	Data type: analog and digital
MAX	maximum quantity
MIN	minimum quantity
Controllable	False: read-only, uncontrollable output Ture: controllable output
Oper	Operation mode ADD: add, work with data structure UPD: update, work with data table DEL: delete, work with data table

9. Navigate to ***Data Scan > New data***, check the value from sensors



10. Navigate to ***Connection Setting > RTU Setting***

Configure the parameters to connect to WLINK M2M management platform



11. Login to WLINK M2M management platform, check the status of sensors