User Manual

GAO RFID 217002Y

Ver. 2.0

GAO RFID Inc.
A Member of GAO Group

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Components

GAO RFID 217002Y

Power Cable

Product CD

RFID Antenna

WiFi Antenna

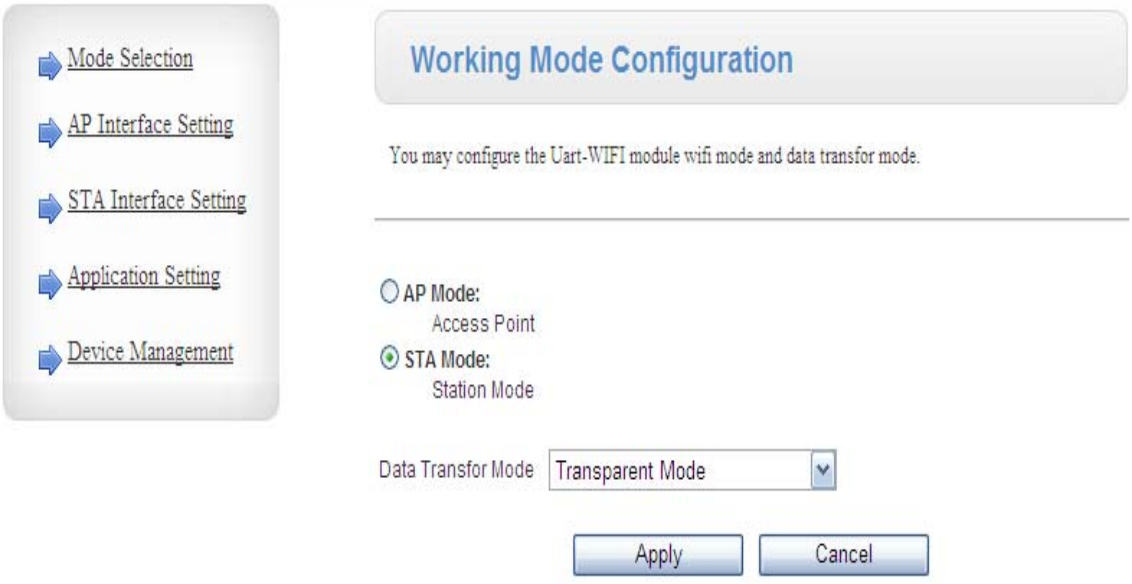
Notice

All components are subject to variation.

Network Setup

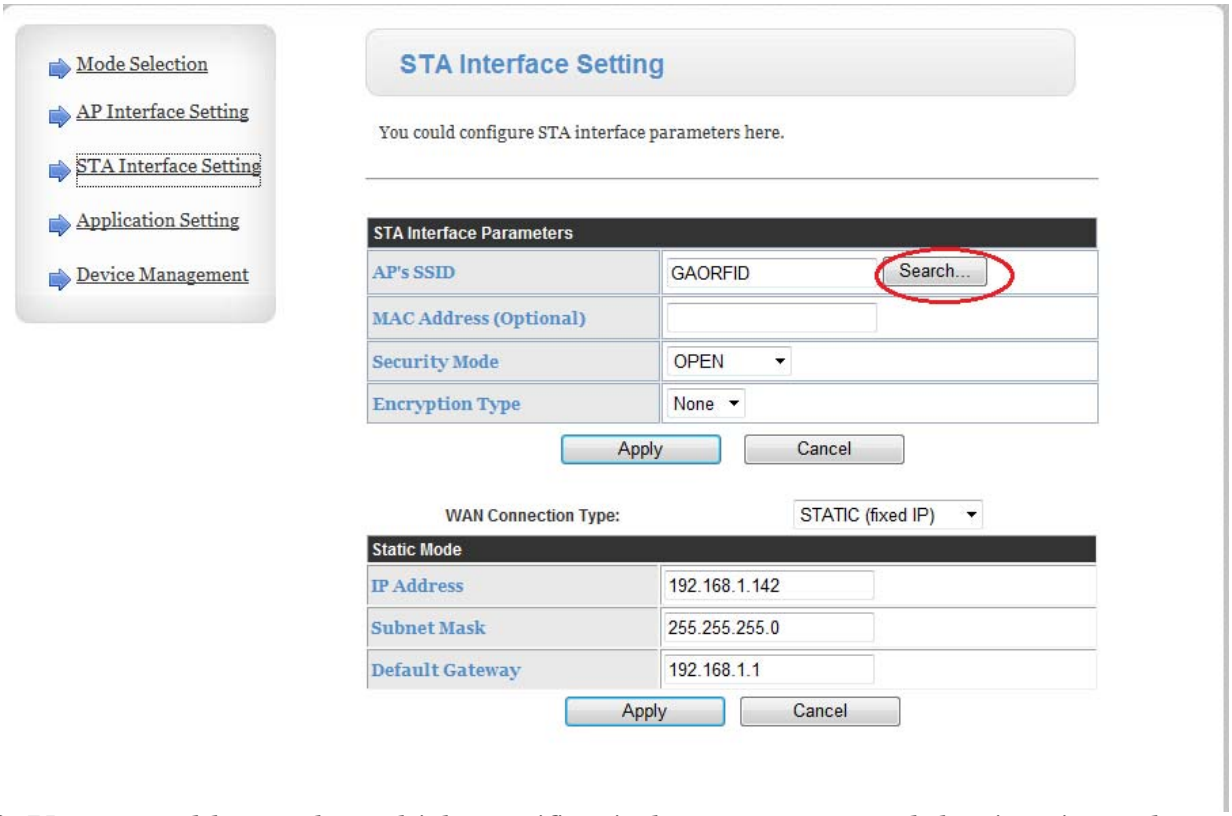
- Prior to setting up the configuration, make sure you have a Reader, a power cable, an Ethernet crossover type RJ45 communication cable and a computer.

1. Make sure the computer's network has to be set as DHCP enabled.
2. Use a crossover RJ45 Ethernet cable to directly connect the PC with the 217002Y device.
3. Power on 217002Y WIFI reader with its default 12VDC power supply.
4. After about 8 seconds, the computer will automatically obtain the Ethernet connection between the PC and the reader.
5. On the PC side, enable the Internet Explorer, then enter the URL: http://10.10.100.254
   Then enter the user name and password, the default both are "admin"
6. Once log in, hit the button of "Mode Selection" which is on the left side of the window, the following screen should be like this:

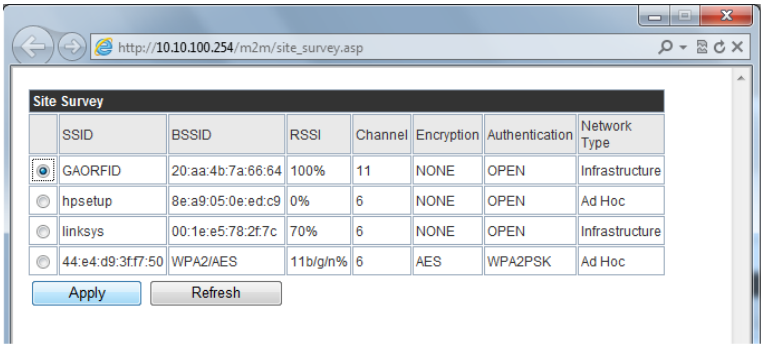


Network Setup

7. Make sure the “STA Mode” is being selected, then hit the button of “Apply”
8. Hit the button of “STA Interface Setting” on the left, the following windows will show up like this:



9. Users are able to select which specific wireless router around that is going to be used with the 217002Y wireless reader. To realize that, just hit the button of “Search”, then select the proper wireless router.
10. There are couple of parameters in this setting panel that require users to input manually -



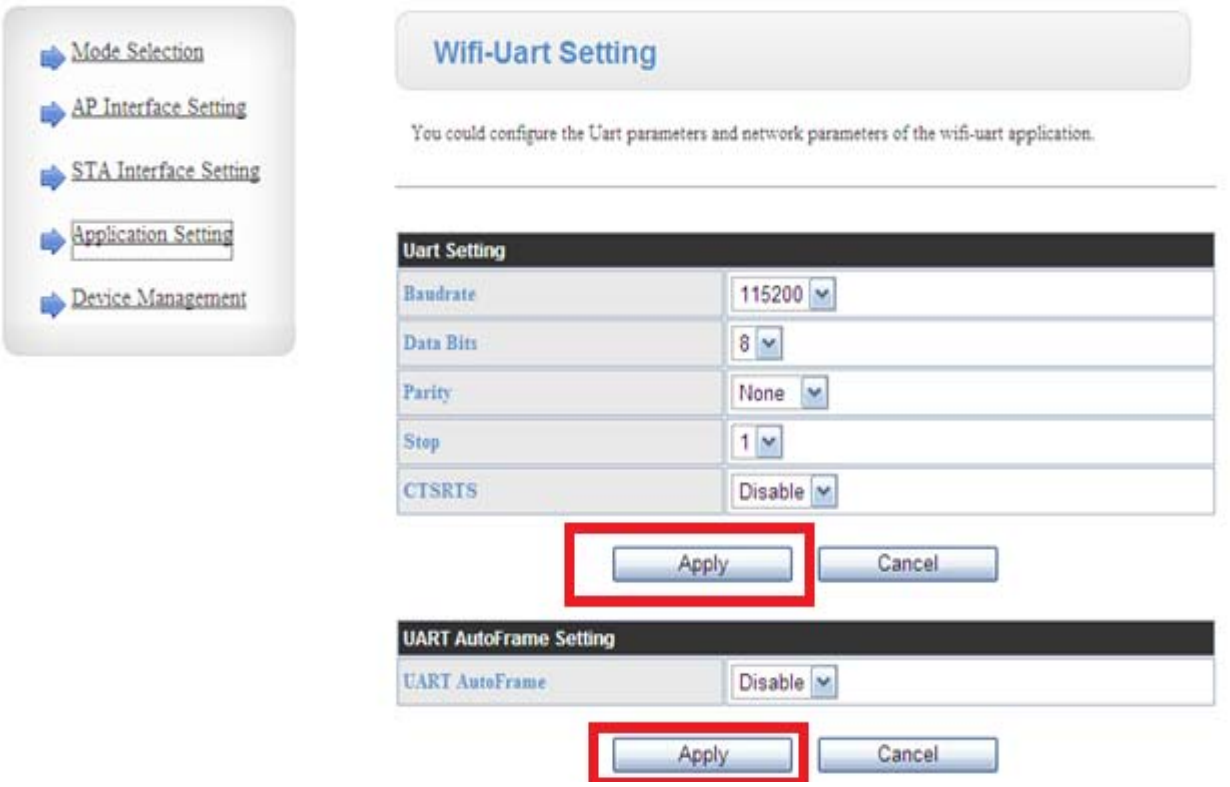
Network Setup

A: SSID
SSID is the unique identification for the 217002Y WiFi reader that is used for connecting with a WiFi router. Users need to confirm both WiFi router and 217002Y reader have the SAME SSID.

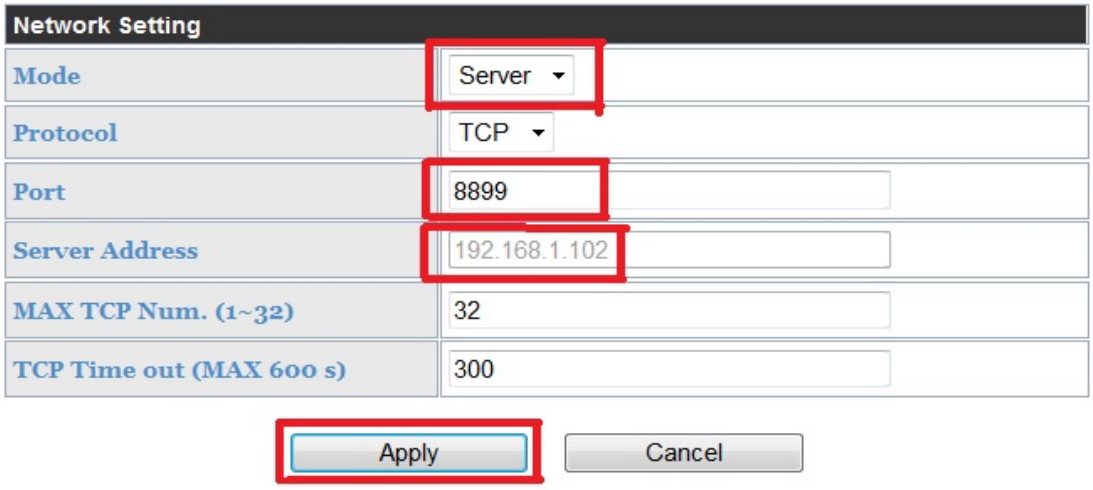
B: Security Mode
If the security setting on the router's side being set, please make sure that on the reader side, the same security setting is set accordingly.

C: Make sure the "Static (Fixed IP)" option is selected and users need to assign a new IP address for the RFID reader based on the current WiFi network. Users may consult with the IT department for more information regarding this setting.

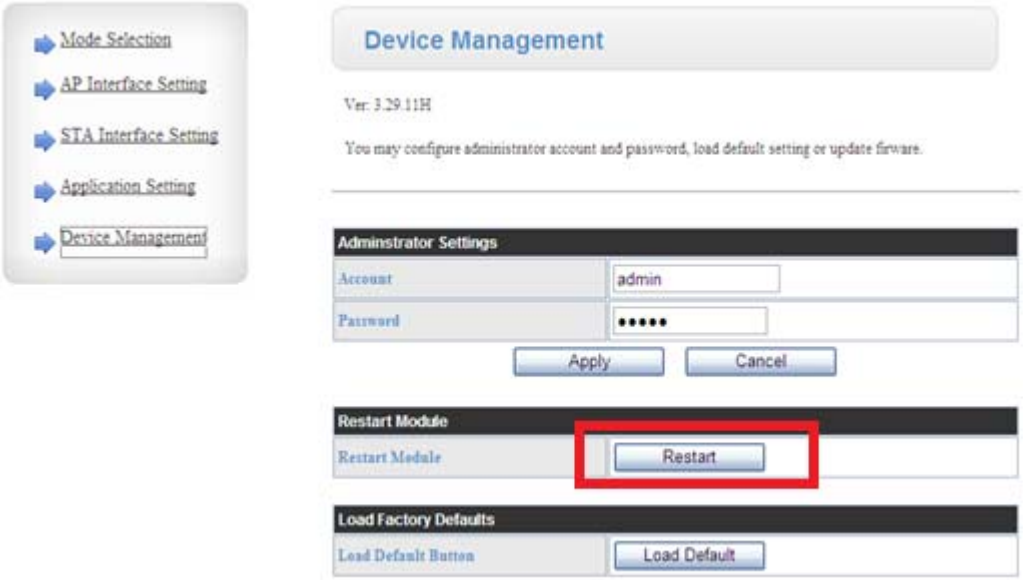
11. Hit the button of "Apply" to make the new settings effective.
12. Then hit the button of "Application Setting" on the left panel and go into the next setting panel, see below:



Network Setup



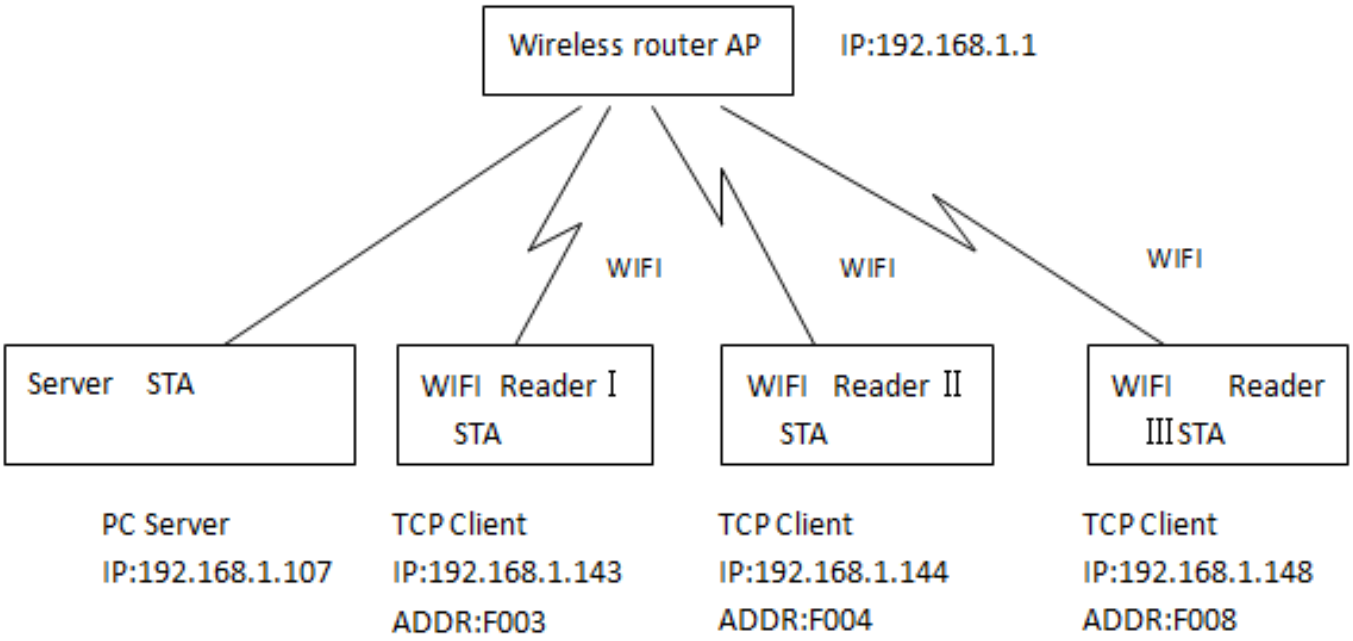
13. Make sure settings such as “Baudrate”, “Data bits” ,etc. exactly match those ones shown on the UART setting above. Then hit the button of “Apply” to make them effective.
14. On the “Network Setting” part, please select “Server” in the dropdown list for the “Mode”; input the TCP/IP port number (i.e. “8899”) and the server address. The server address stands for your computer’s IP address. Then hit the button of “Apply”.
15. On the left panel, hit the button of “Device Management”, then hit the button of “Restart” to reboot your 217002Y WiFi reader, see below:



Network Setup

After the 217002Y reboots, the network parameters being set on the reader side will take effective.

Notice: User might need to set your Wireless router and the PC as well based on the current WiFi network. For more information about it, please work with your WiFi router provider or the IT department for details.



Notice

- ✓ Before you run the demo software, we recommend *Pinging test* to check the connection status between the Reader and your computer.
- ✓ You can learn how to do *Pinging Test* on next page. You may skip the next page if you are already aware of the *Pinging Test*.

Pinging Test

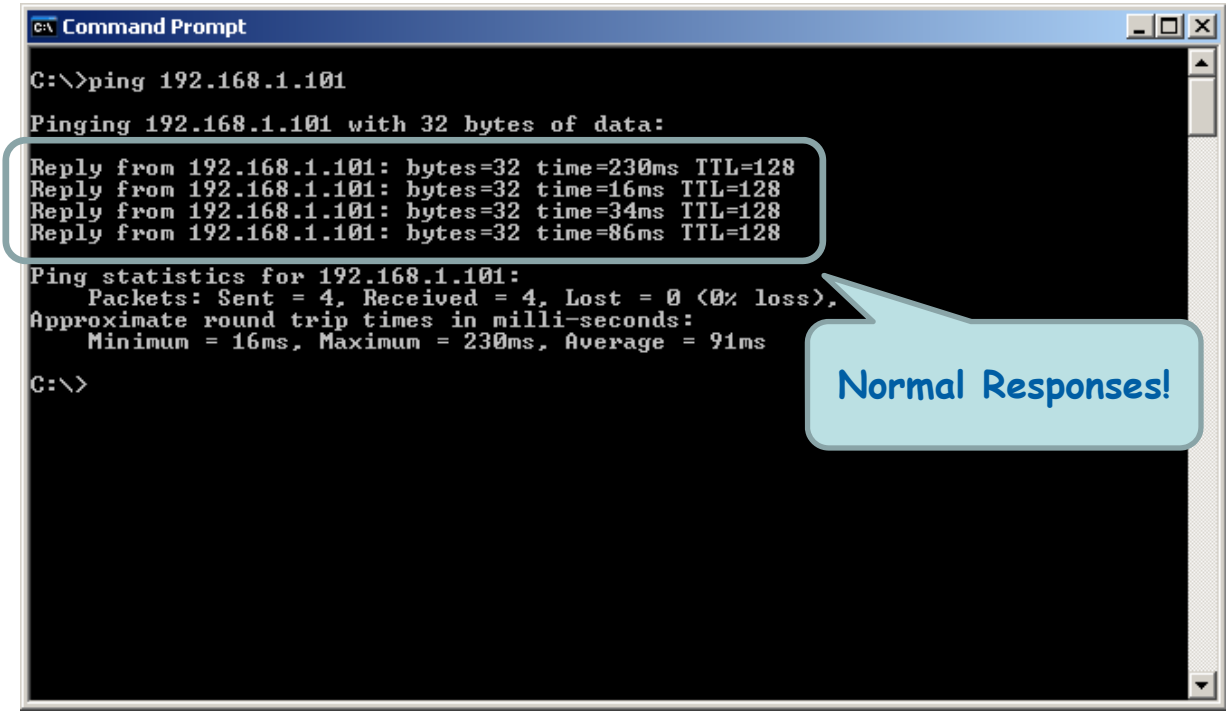
Pinging Test

Pinging is a command which tells you if the connection between your computer and a particular domain is working correctly. You can perform ***Ping Test*** *to verify the condition of the connection between the reader and your computer.*

1. In Windows, select Start > Programs > Accessories > Command Prompt. This will give you a window like the one below.

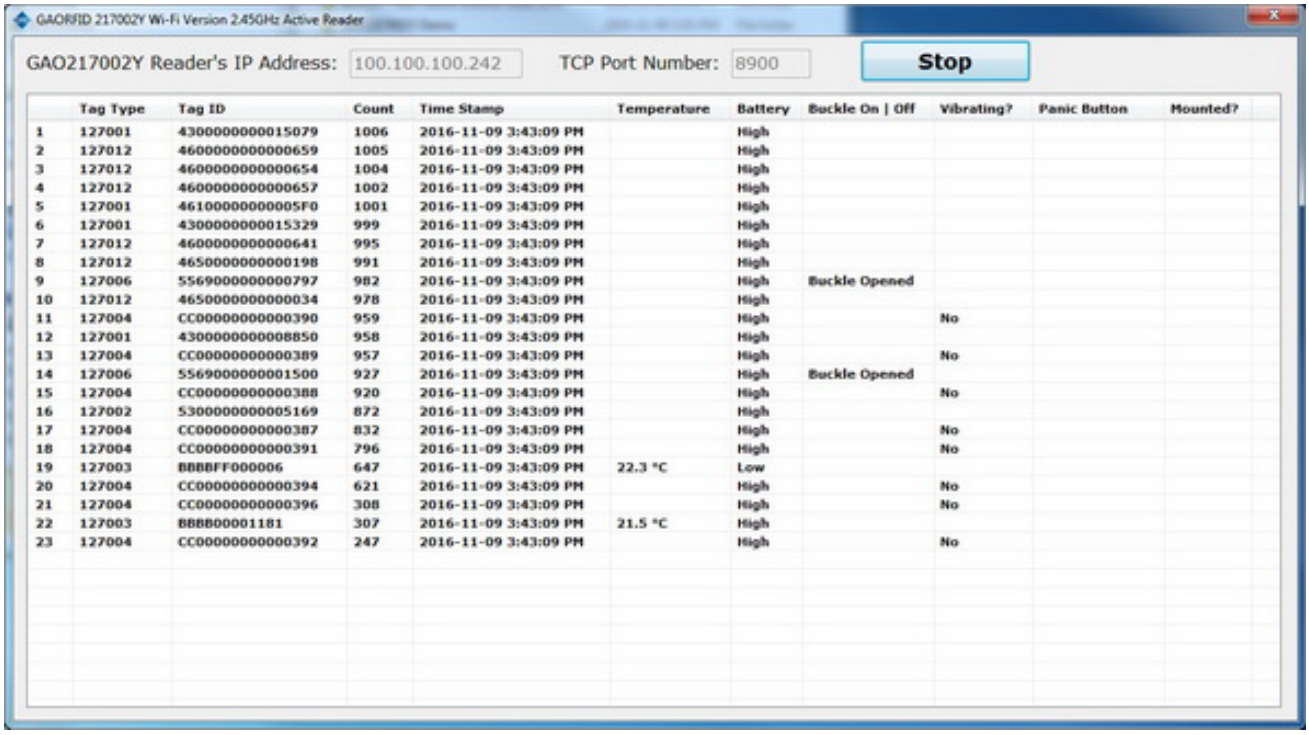
2. Enter the word ping, followed by a space, then the domain name, which means the target IP address; in this case, it is the IP address of the Reader.

3. If the results show a series of replies, the connection is working. The time shows you how fast the connection is. If you see a "timed out" error message instead of a reply, there is a breakdown somewhere between your computer and the domain.



Running Demo Software

1. Insert the product CD and double click on the CD icon from ‘My Computer’. Then, double-click on the installer file of “GAO217002Y_Demo_Setup.msi”.
2. After the installation finishes , the shortcut should be created on the desktop.



	Tag Type	Tag ID	Count	Time Stamp	Temperature	Battery	Buckle On | Off	Vibrating?	Panic Button	Mounted?
1	127001	4300000000015079	1006	2016-11-09 3:43:09 PM		High				
2	127012	4600000000000659	1005	2016-11-09 3:43:09 PM		High				
3	127012	4600000000000654	1004	2016-11-09 3:43:09 PM		High				
4	127012	4600000000000657	1002	2016-11-09 3:43:09 PM		High				
5	127001	46100000000005F0	1001	2016-11-09 3:43:09 PM		High				
6	127001	4300000000015329	999	2016-11-09 3:43:09 PM		High				
7	127012	4600000000000641	995	2016-11-09 3:43:09 PM		High				
8	127012	4650000000000198	991	2016-11-09 3:43:09 PM		High				
9	127006	5569000000000797	982	2016-11-09 3:43:09 PM		High	Buckle Opened			
10	127012	4650000000000034	978	2016-11-09 3:43:09 PM		High				
11	127004	CC00000000000390	959	2016-11-09 3:43:09 PM		High		No		
12	127001	4300000000008850	958	2016-11-09 3:43:09 PM		High				
13	127004	CC00000000000389	957	2016-11-09 3:43:09 PM		High		No		
14	127006	5569000000001500	927	2016-11-09 3:43:09 PM		High	Buckle Opened			
15	127004	CC00000000000388	920	2016-11-09 3:43:09 PM		High		No		
16	127002	5300000000005169	872	2016-11-09 3:43:09 PM		High				
17	127004	CC00000000000387	832	2016-11-09 3:43:09 PM		High		No		
18	127004	CC00000000000391	796	2016-11-09 3:43:09 PM		High		No		
19	127003	BBBBFF000006	647	2016-11-09 3:43:09 PM	22.3 °C	Low				
20	127004	CC00000000000394	621	2016-11-09 3:43:09 PM		High		No		
21	127004	CC00000000000396	308	2016-11-09 3:43:09 PM		High		No		
22	127003	BBBB00001181	307	2016-11-09 3:43:09 PM	21.5 °C	High				
23	127004	CC00000000000392	247	2016-11-09 3:43:09 PM		High		No		

Running Demo Software

Notice

- ✓ Before you run the demo software, Please make sure the WiFi readers have been configured correctly.
- ✓ Please make sure the WiFi readers, the router and your computer have been connected correctly.

3. Please input the reader's IP and port number according to your configuration, then press the "Start" button. If the reader is connected, the tag reading process should start.

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601 Milner Avenue, 3rd Floor
Toronto, Ontario
Canada M1B2K4
Tel: +1 (416) 292-0038 • Fax: +1 (416) 292-2364