

ATC - 1000 serial server online solution sample

1, LAN Solutions

1.1, LAN connection as shown in figure 1.

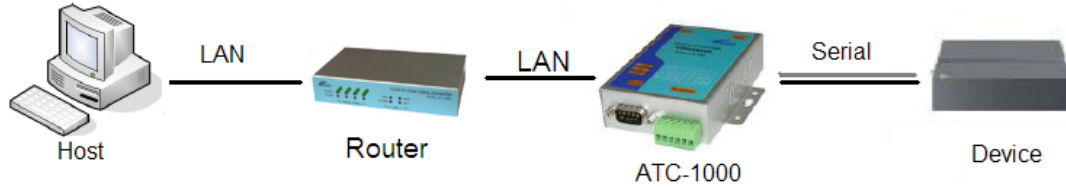


Figure 1, LAN connection

1.2, The router parameters as shown in figure 2.

The screenshot shows the configuration page of a 'Wireless Router' with a '108 Mbps' speed. The interface includes a navigation menu on the left with options like Main, Wireless, Status, Routing, Access, Management, Tools, and Wizard. The main content area displays the following settings:

- Device information:** Firmware Version: 4.00, 23 Oct 2007
- WAN:** MAC Address: 00-11-6b-62-cd-03; Connection Type: PPPoE Connected; IP Address: 116.30.242.128; Subnet Mask: 255.255.255.255; GateWay: 116.30.242.128; DNS: 202.96.134.133, 202.96.128.166
- Wireless:** Connection Type: 802.11g AP Enable; SSID: SZ_ATC; Channel: 6; Authentication Type: 64-bit WEP
- LAN:** MAC Address: 00-11-6b-62-cd-02; IP Address: 192.168.1.1; Subnet Mask: 255.255.255.0; DHCP Server: Enabled

Figure 2, Router parameters

The router IP for 192.168.1.1. The router Internet IP for the 116.30.242.128.

1.3, ATC - 1000 IP Settings, as shown in figure 3.

The screenshot shows the 'Administrator Setting' page for the ATC-1000. It includes a navigation menu on the left with options like Administrator Setting, TFTP Mode, UDP Mode, UART, and Reset Device. The main content area displays the following settings:

- Kernel Version:** V1.44.3 2012/05/09
- MAC Address:** 00:11:22:79:A6:1F
- Nickname:** NetUART
- IP Setting:** IP Address: 192.168.1.100; Subnet Mask: 255.255.255.0; Gateway: 192.168.1.1; IP Configure: Static
- Password Setting:** Username: admin; Password: [masked]
- Buttons:** Update, Load

Figure3, IP setting

The ATC - 1000 IP for 192.168.1.100 (192.168.1.2-192.168.1.254). gateway for router IP 192.168.1.1.

[Administrator Setting](#)
[TCP Mode](#)
[UDP Mode](#)
[UART](#)
[Reset Device](#)

TCP Control

Item	Value
Telnet Server/Client	TCP server or client mode selection <input checked="" type="radio"/> Server <input type="radio"/> Client <input type="radio"/> Disable
Port Number	Port Number selection.(0-65535) 23
Remote Server IP Address	When using the TCP client mode, fill in the server IP. No used in server mode. 210.200.181.102
Client mode inactive timeout	20 minute (1~99,0=Disable)
Server mode protect timeout	60 minute (1~99,0=Disable,99=Can't replace)

Use the default

Figure 4,TCP Mode

[Administrator Setting](#)
[TCP Mode](#)
[UDP Mode](#)
[UART](#)
[Reset Device](#)

UDP

Item	Value																						
Status	Enable to use UDP Mode <input type="radio"/> Enable <input checked="" type="radio"/> Disable																						
Local Port	Server local port. (0-65535) 21																						
Remote Address	<table border="1"> <thead> <tr> <th>IP</th> <th>Port</th> </tr> </thead> <tbody> <tr><td>0 0 0 0</td><td>0</td></tr> <tr><td>0 0 0 0</td><td>0</td></tr> <tr><td>0 0 0 0</td><td>0</td></tr> <tr><td>0 0 0 0</td><td>0</td></tr> <tr><td>0 0 0 0</td><td>0</td></tr> <tr><td>0 0 0 0</td><td>0</td></tr> <tr><td>0 0 0 0</td><td>0</td></tr> <tr><td>0 0 0 0</td><td>0</td></tr> <tr><td>0 0 0 0</td><td>0</td></tr> <tr><td>0 0 0 0</td><td>0</td></tr> </tbody> </table>	IP	Port	0 0 0 0	0	0 0 0 0	0	0 0 0 0	0	0 0 0 0	0	0 0 0 0	0	0 0 0 0	0	0 0 0 0	0	0 0 0 0	0	0 0 0 0	0	0 0 0 0	0
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Fill the IP and Port of slave, the maximum extension number 10, must be the same network segment with the master.

Figure 5,UDP Mode

[Administrator Setting](#)
[TCP Mode](#)
[UDP Mode](#)
[UART](#)
[Reset Device](#)
 Restart ATC-1000

UART Control

Item	Setting
Mode	RS232
Baudrate	57600
Character Bits	8
Parity Type	none
Stop Bit	1
Hardware Flow Control	none
Delimiter	<input type="checkbox"/> Character 1: 00 <input type="checkbox"/> Character 2: FF <input type="checkbox"/> Silent time: 5 (1~255)*200ms <input type="checkbox"/> Drop Character

Control software and device according to your requirements, modified to whom the same Mode, baud rate and so on.

Figure 6,UART setting

1.4, Host connect to ATC - 1000 have two kinds of methods

1.4.1, Winsock connection. Such as direct connection 192.168.1.100, port 23.

1.4.2, Virtual serial port connection. the virtual serial port software VCOM3.6 use methods such as accessories

2, Internet connection solutions

2.1, Internet connection as shown in figure 7.

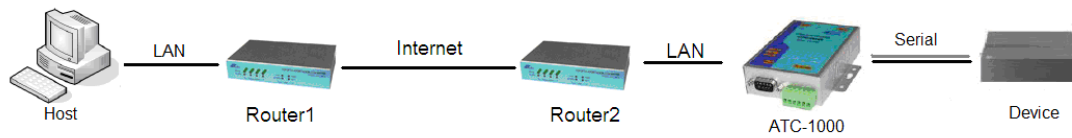


Figure 7, Internet connection

2.2, Router 2 parameters see figure 2

2.3, ATC - 1000 IP Settings

Administrator Setting

Administrator Setting

Serial Version	V1.44.3 2012/05/09
MAC Address	00:11:22:19:A6:1F
Nickname	NetUART
IP Setting	
IP Address	192 168 1 100
Subnet Mask	255 255 255 0
Gateway	116 30 242 128
IP Configure	<input checked="" type="radio"/> Static <input type="radio"/> DMZ
Password Setting	
Username	admin max:15
Password	***** max:15
Confirm	***** max:15
<input type="button" value="Update"/>	
Load Default Setting to EEPROM	<input type="button" value="Load"/>

Note: Nickname only can use "0-9","a-z","A-Z","_", "-", "

Figure 8. Online IP setting

The ATC - 1000 IP for 192.168.1.100 (192.168.1.2-192.168.1.254) gateway for router Internet IP 116.30.242.128.

TCP model, UDP mode and UART Settings are the same to LAN.

2.4, The router Settings

The router may have two Settings. Can be related to ATC - 1000. You can according to needs to choose one.

2.4.1, DMZ mode connection

In the router's channel find DMZ, fill in the ATC - 1000 IP. As shown in figure 9.

Wireless Router

108 Mbps

Filter Virtual Server Special AP DMZ Firewall Rule

Enabled Enabled Disabled

DMZ Host IP 192.168.1.100

Main Wireless Status Routing Access Management Tools Wizard

Figure 9, DMZ setting

This model is characteristic of the DMZ can only set up an IP, also is the only connection to an ATC - 1000.

2.4.2, IP mapping mode connection

In the router find IP mapping Settings. Choose a different port mapping to a different ATC - 1000. ATC - 1000 port must be the same to router Settings mapping port.

This model can connect more ATC – 1000.

2.5, DNS use

Apply for a DNS, the router 2 fill in the DNS. Host can through the PING DNS know router 2 Internet IP. Host or can use other method to know the router 2 Internet IP

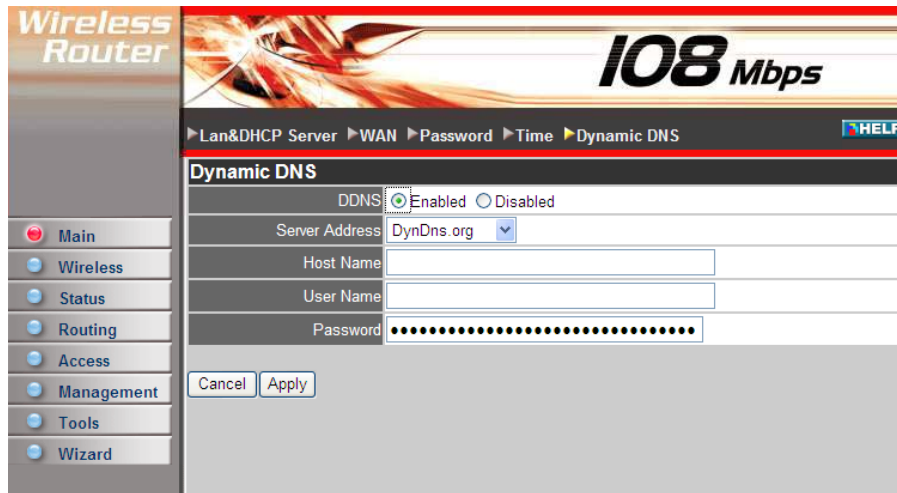


Figure 10,DNS setting

2.6, Host connect to ATC - 1000 have two kinds of methods.

2.6.1, Winsock connection, such as direct connection 116.30.242.128, port 23.

2.6.2, Virtual serial port connection, the virtual serial port software VCOM3.6 use methods such as accessories. One difference, as shown in figure 11.

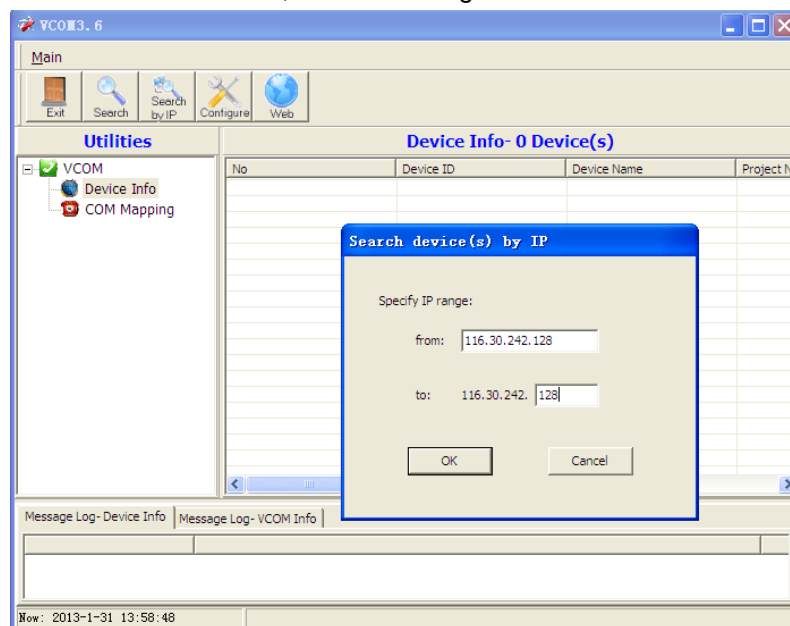


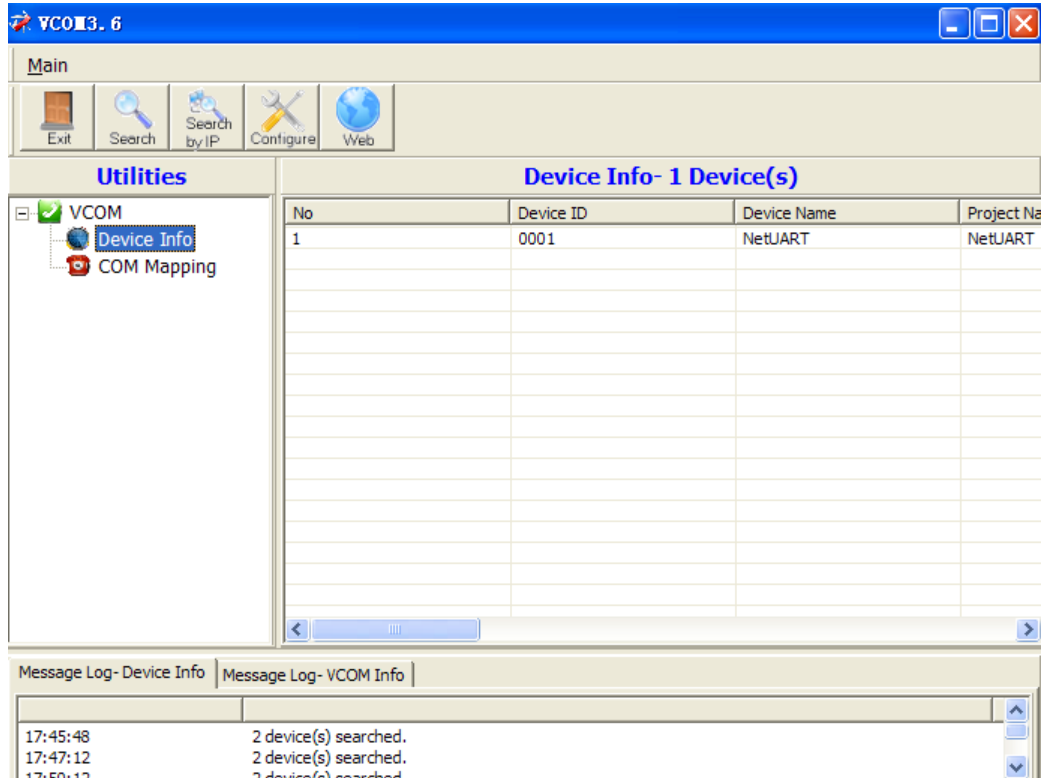
Figure 11,Search by IP

LAN use of Search. Internet use of the Search by IP. And then fill in the router 2 Internet IP.

Accessories, ATC - 1000 vcom user's manual

Set computer IP and ATC – 1000 to the same net, see from ATC-1000 user's manual.
Connection network, power on.

1. Open software, click on the **search**. It will seek out ATC - 1000 IP. As shown.



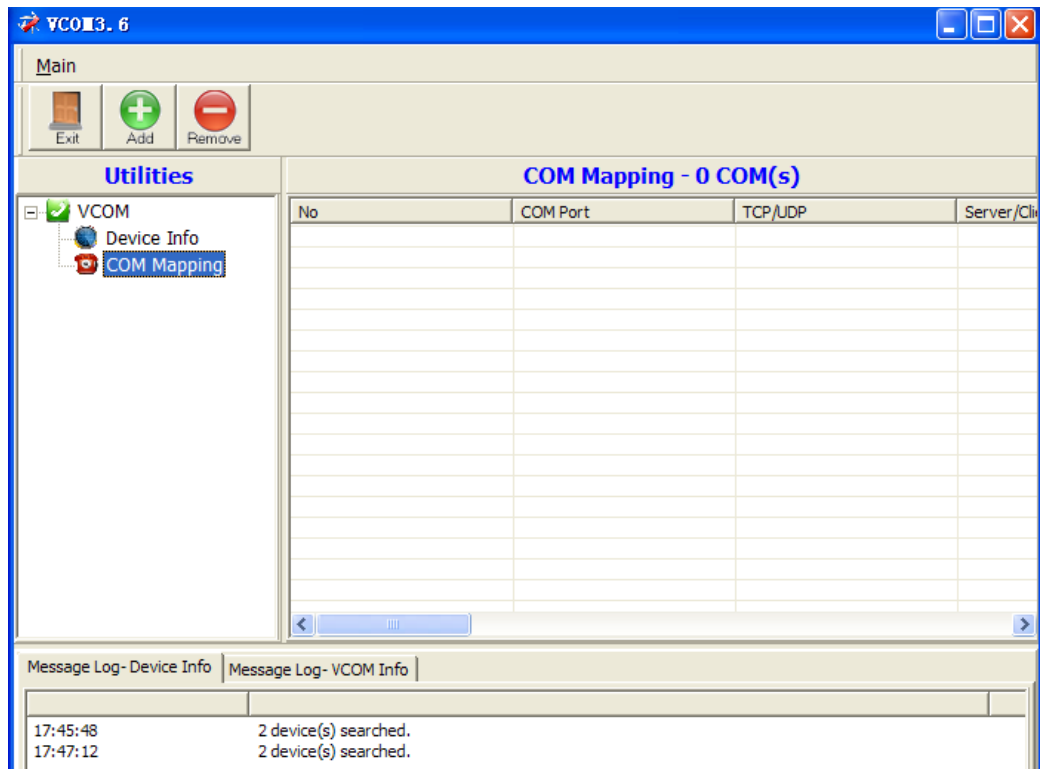
The screenshot shows the VCOM 3.6 software interface. The title bar reads "VCOM 3.6". The main menu includes "Exit", "Search", "Search by IP", "Configure", and "Web". The "Utilities" pane on the left shows "VCOM" expanded with "Device Info" and "COM Mapping" options. The main area displays "Device Info- 1 Device(s)" with a table containing one entry:

No	Device ID	Device Name	Project Na
1	0001	NetUART	NetUART

Below the table is a "Message Log" section with two tabs: "Message Log- Device Info" and "Message Log- VCOM Info". The log shows three entries:

Time	Message
17:45:48	2 device(s) searched.
17:47:12	2 device(s) searched.
17:50:17	2 device(s) searched.

2. Click on **com mapping**. As shown.



The screenshot shows the VCOM 3.6 software interface with the "COM Mapping" screen selected. The title bar reads "VCOM 3.6". The main menu includes "Exit", "Add", and "Remove". The "Utilities" pane on the left shows "VCOM" expanded with "Device Info" and "COM Mapping" options. The main area displays "COM Mapping - 0 COM(s)" with a table containing no entries:

No	COM Port	TCP/UDP	Server/Cl
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Below the table is a "Message Log" section with two tabs: "Message Log- Device Info" and "Message Log- VCOM Info". The log shows two entries:

Time	Message
17:45:48	2 device(s) searched.
17:47:12	2 device(s) searched.

3. Click on **add**. It will pop up as shown.

No	Device Name	MAC Address	Search IP Address
1	NetUART	FF-FF-FF-FF-FF-FF	192.168.2.1

TCP/UDP TCP UDP

Server/Client Server Client

IP Address Local Port

COM COM Remote Port

Enable Control Connection

second(s) for reconnection interval.

4. Select **No 1**. Modify the **COM**, **Can't make any other changes**. Click **OK**, Set success, As shown, Virtual COM10 success.

No	COM Port	TCP/UDP	Server/Client
1	10	TCP	Client

Message Log - Device Info Message Log - VCOM Info

17:45:48 2 device(s) searched.
 17:47:12 2 device(s) searched.
 17:50:12 2 device(s) searched.

Now: 2011-1-5 17:53:27