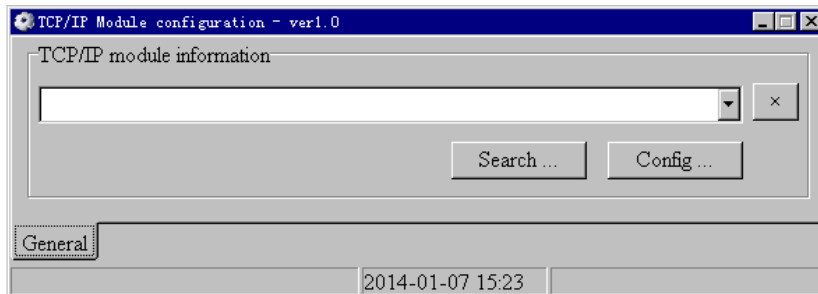


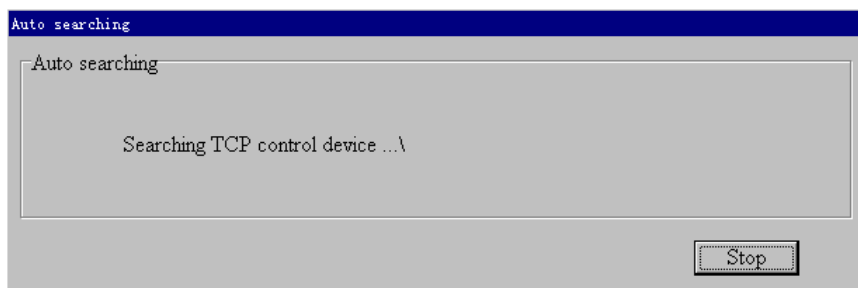
TCP Module user instructions

- Enable PC's RJ-45 interface and Disable PC's WIFI.
- Connect PC and Matrix with CAT6 cable directly through RJ-45 interface
- Set PC net properties as: IP = 192.168.0.200, Subnet mask = 255.255.255.0, Gateway = 192.168.0.1
- Run "TCP-IP module configuration - v1.0.exe", main window shown as below:

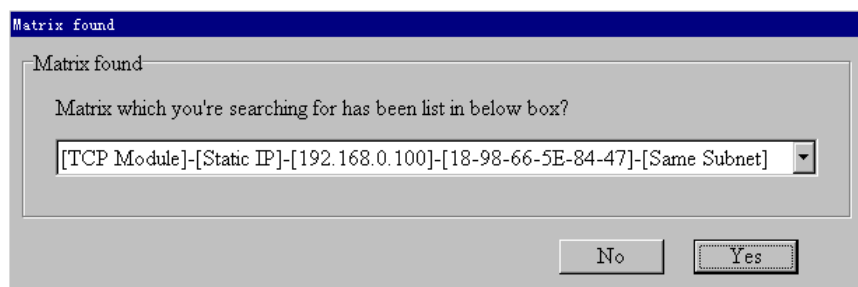


- Click "Search..." button to find out built-in TCP Module:

Searching...

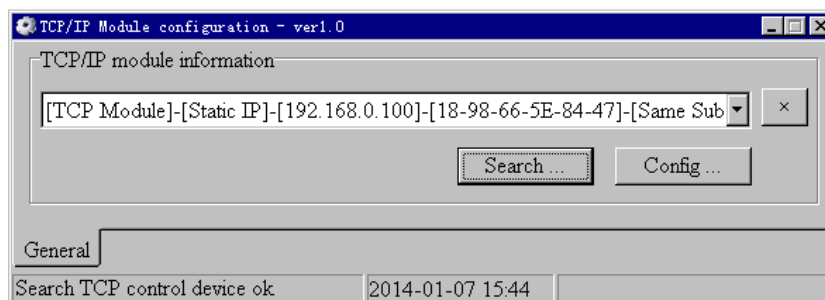


Found



NOTE: Default settings of TCP module are: Static IP mode and IP address is 192.168.0.100.

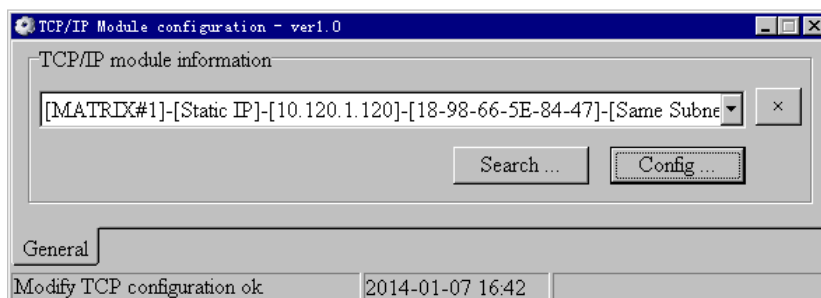
- Click "Yes" button, TCP Module item will be added in the list box:



- Click "Config ..." button to modify Device Tag, IP mode and IP address of TCP Module:



When filled ok then click “OK” button: Device Tag = “MATRIX#1”, Static IP, IP Address = 10.120.1.120.



NOTE: Static IP mode is recommended

- After these modifications, put the Matrix under the router or net switcher which PC will connect with. Set PC's net same as Matrix connects.
- Ping the Matrix IP address by PC. It means OK when reply received.

```
C:\Documents and Settings\Administrator>ping 10.120.1.120

Pinging 10.120.1.120 with 32 bytes of data:

Reply from 10.120.1.120: bytes=32 time=4ms TTL=100
Reply from 10.120.1.120: bytes=32 time=1ms TTL=100
Reply from 10.120.1.120: bytes=32 time<1ms TTL=100
Reply from 10.120.1.120: bytes=32 time=2ms TTL=100

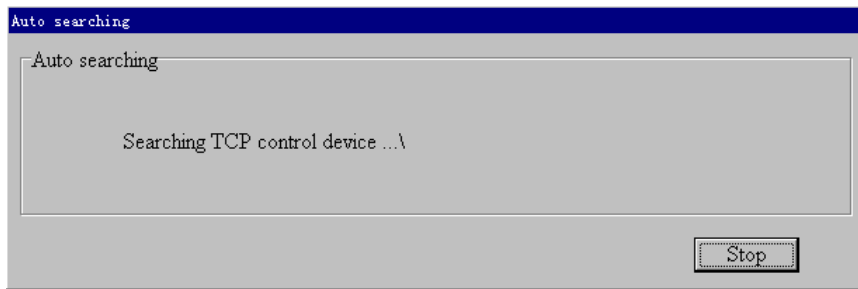
Ping statistics for 10.120.1.120:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 4ms, Average = 1ms
```

- Then Telnet commands can be used to control Matrix.

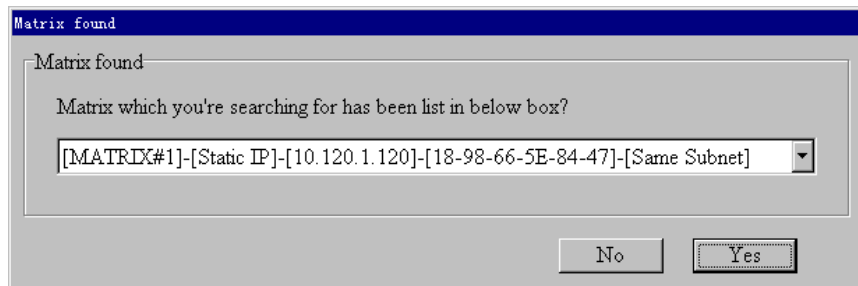
```
C:\Documents and Settings\Administrator>telnet 10.120.1.120
```

- Run "TCP-IP module configuration - v1.0.exe" again.
- Search TCP control module

① Click "Search" button to pop up auto searching window:

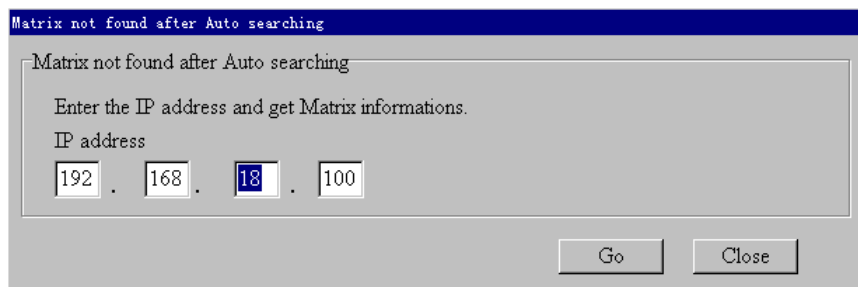


② Because TCP control module is in same subnet, it will be found after auto searching:

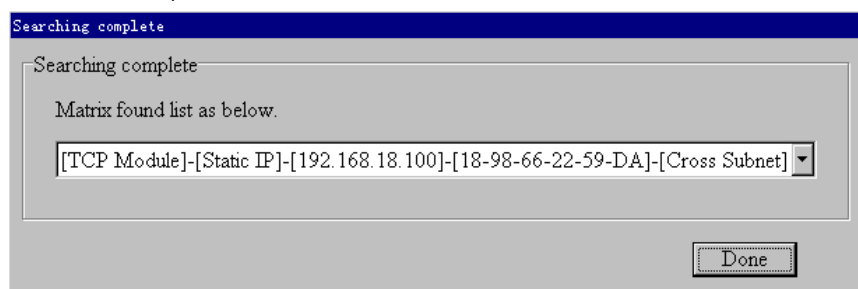


NOTE: Default settings of TCP module are: Static IP mode and IP address is 192.168.0.100.

③ If the TCP control module is in cross subnet, IP address should be entered manually in edit boxes like as below:

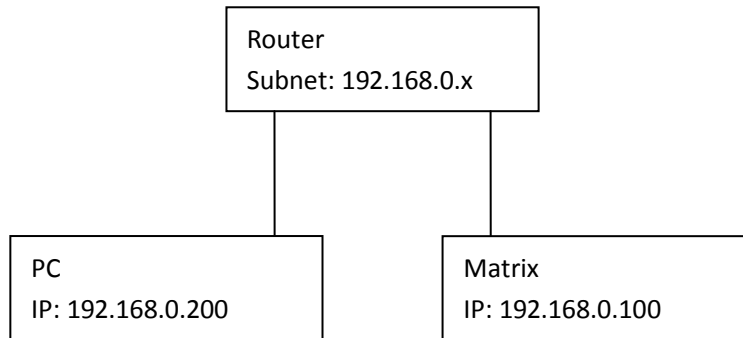


④ Then click "Go" button, TCP control module will be found:

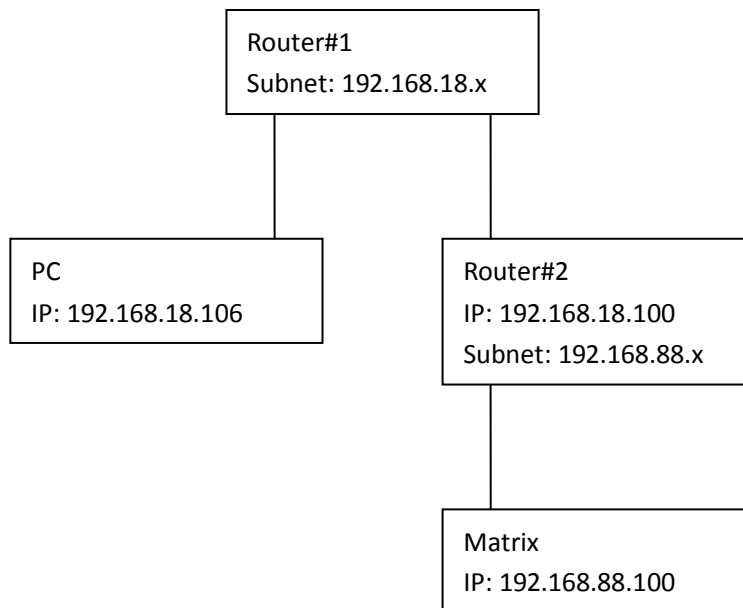


NOTE:

① Same subnet means Matrix connects a router which is same as PC connects, for example as below:



② Cross subnet means Matrix connects a router which is different from PC connects, for example as below:



Items list below should be added in router#1's "Virtual Server" setting page:

Service port	IP address	Protocol	Status
8000	192.168.18.100	TCP	Active
30600	192.168.18.100	UDP	Active
30601	192.168.18.100	UDP	Active

Items list below should be added in router#2's "Virtual Server" setting page:

Service port	IP address	Protocol	Status
8000	192.168.88.100	TCP	Active
30600	192.168.88.100	UDP	Active
30601	192.168.88.100	UDP	Active

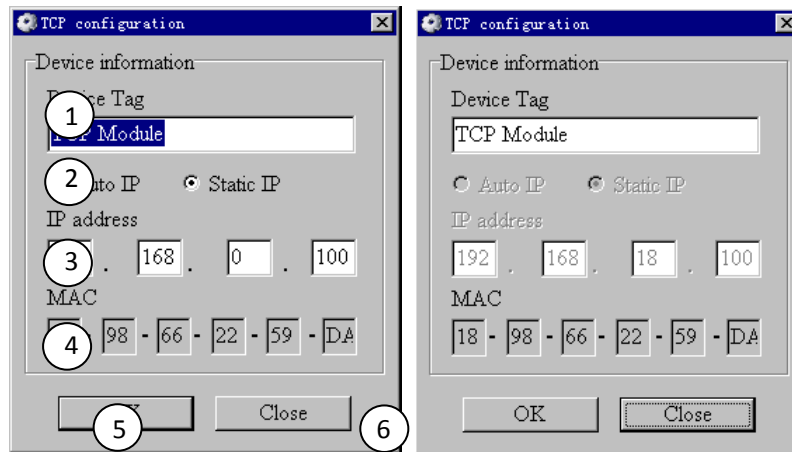
After setting these three items on each Router's "Virtual Server" setting page, PC can relocate the Matrix over ports 8000/30600/30601 of TCP/UDP/UDP protocols.

③ It's recommended that the Matrix is installed in same subnet.

④ In same subnet, both DHCP and Static IP modes are supported, while only Static IP mode is supported in cross subnet mode.

➤ Set TCP control configuration

Click Config button to show TCP configuration window.



- ① Set tag to identify Matrix device
- ② Set IP mode: Subnet should support DHCP protocol when set Auto IP mode, then Matrix device will obtain IP automatically. Otherwise, set Static IP mode and designate a useable IP for Matrix device. **Note: In cross subnet this setting can not be changed, only Static IP supported.**
- ③ Set IP address, not editable when Auto IP mode selected. **Note: The last IP BYTE's range is 2-252. In cross subnet this setting can not be changed.**
- ④ Matrix device MAC address, read only.
- ⑤ Click OK to set configuration. If configuration is set OK, Matrix devices will be searched out again
- ⑥ Click to Close the window and configuration cancelled