# **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:

🐼 TCP/IP Module configuration - ver1.0	
TCP/IP module information	
	• ×
	Search Config
General	
	2014-01-07 15:23
	12014-01-07 15.25 J

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

## Searching...

Found

	Searching TCF	control device	X		
					Stop
					Stop
'ix four	nd Sum d				Stop
rix four Aatrix f Matrii	ad òund x which you're se	arching for has 1	oeen list in belo	w box?	Stop

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:

🐼 TCP/IP Module configuration - ver1.0					
TCP/IP module information					
[TCP Module]-[Static IP]-[192.168.0.100]-[18-98-66-5E-84-47]-[Same Sub					
Search Config					
General					
Search TCP control device ok	2014-01-07 15:44				

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

TCP/IP configuration
Device information
Device Tag
TCP Module
O Auto IP 💿 Static IP
IP address
192 168 0 100
MAC
18 - 98 - 66 - 5E - 84 - 47
OK Close

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

TCP/IP configuration	×
Device information	
Device Tag	
MATRIX#1	
O Auto IP O Static IP	
IP address	
10 . 120 . 1 . 120	
MAC	
18 - 98 - 66 - 5E - 84 - 47	
OK	

🔄 TCP/IP Module configuration - ver1.0					
TCP/IP module information					
[MATRIX#1]-[Static IP]-[10.120.1.120]-[18-98-66-5E-84-47]-[Same Subne					
Search Config					
General					
Modify TCP configuration ok 2014-01-07 16:42					

### 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 = Oms, 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

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

Auto searching	
-Auto searching Searching TCP control device\	
	Stop

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

Matrix found
⊤Matrix found
Matrix which you're searching for has been list in below box?
[MATRIX#1]-[Static IP]-[10.120.1.120]-[18-98-66-5E-84-47]-[Same Subnet]
No Yes

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

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

Matrix not found after Auto searching				
Matrix not found after Auto searching				
Enter the IP address and get Matrix informations.				
IP address				
192 . 168 . 18 . 100				
	Go Close			

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

earching complete	
Searching complete	
Matrix found list as below.	
[TCP Module]-[Static IP]-[192.168.18.100]-[18-98-66-22-59-DA]-[Cross Subnet] 💌	
Done	

## 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	ТСР	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	ТСР	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.

🖏 TCP configuration 🛛 🗙	💞 TCP configuration 🛛 🔀	
Device information	Device information	
The Tag	Device Tag	
Module	TCP Module	
2)ato IP © Static IP	C Auto IP © Static IP	
IP address	IP address	
<b>3</b> . 168. 0. 100	192 . 168 . 18 . 100	
MAC	MAC	
4 98 - 66 - 22 - 59 - DA	18 - 98 - 66 - 22 - 59 - DA	
5 Close 6	OK Close	

 $(\underline{1})$  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