

How to check the TCP/IP

一、 The testing commands of DOS system

How to enter the DOS system:

For Win95/98/Me, you can find out the MS-DOS in All programs.

For Win2000/XP, please click Start=>Run, then you can enter “cmd” as following chart 1:

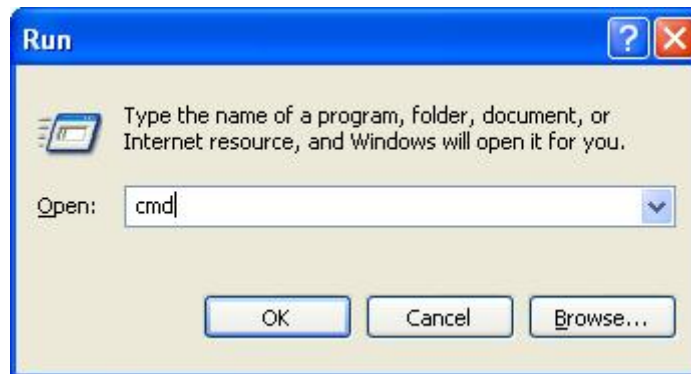


Chart 1

Please check the IP address by ipconfig as following chart 2:

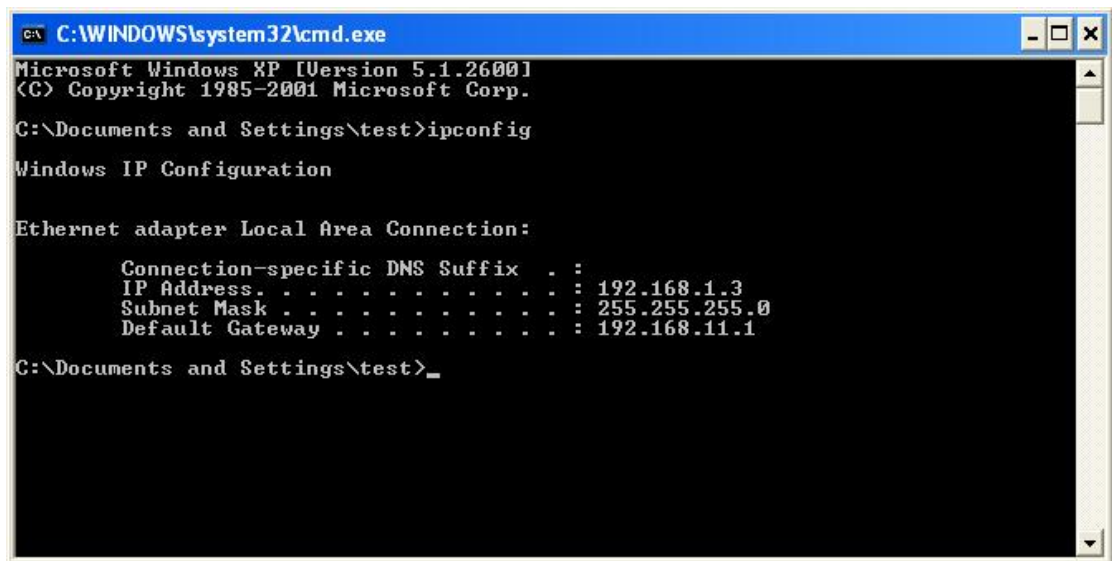


Chart 2

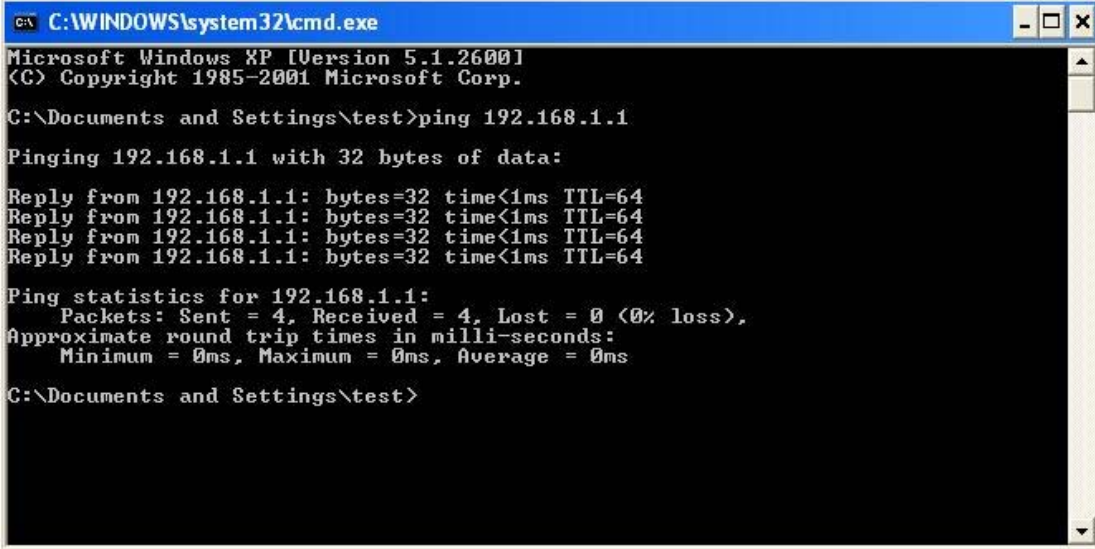
Please check the other IP address by ping xxx.xxx.xxx.xxx as following chart 3:

If you got the feedback mean it found out the IP address.

The chart 4 mean error feedback, mean it didn't find out the IP address.

If you got 4 lines feedback commands that showed “Reply from....” Or “Request timed out”, it mean the network quality is not stable, please confirm with your engineer to solve networking cable or the system

problem.



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\test>ping 192.168.1.1

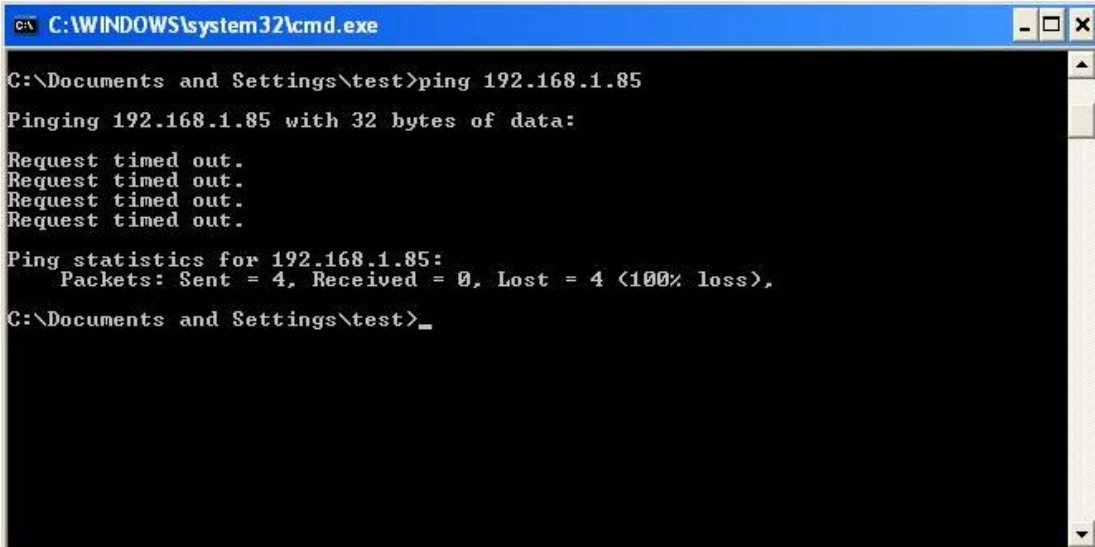
Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Documents and Settings\test>
```

Chart 3



```
C:\WINDOWS\system32\cmd.exe

C:\Documents and Settings\test>ping 192.168.1.85

Pinging 192.168.1.85 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.1.85:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\Documents and Settings\test>_
```

Chart 4

二、PC internet set up

For Win95/98/Me: Start => control panel => internet options , select TCP/IP, please note the default setting of IP and gateway address .

For Win2000/XP: Start => control panel => Network and Internet Connections => Network Connections, then click “Local Area Connect” and click the right button of the mouse, choose “Properties”. Please noted the default setting of IP s and gateway address.

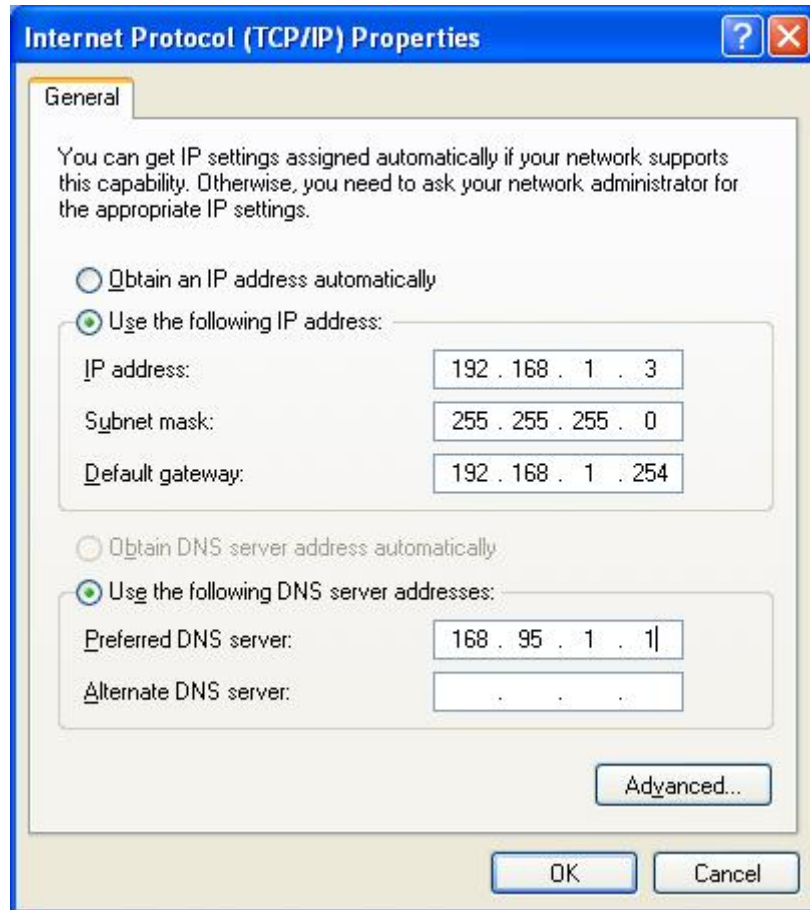


Chart 5

三、Converter Setting

- A. Please used a cross-link cable (RJ-45) that connect pc and converter, to open the PC-T100.ext file then you can know converter IP address.
- B. Please set up to the same network between PC and converter, mean the same IP address of 1~3 sections.
- C. Open the browser (such as Internet Explorer or Firefox...etc.), enter converter IP address then you can enter the setting window.
- D. ◦ The setting window as following chart 6 & 7.

If you used Pegasus software there are some points please be noted.

- i. The DHCP need to set to Disabled
- ii. The Socket Port need to set to 4001 and TCP server
- iii. The interface need to set to RS232
- iv. The baud rate please set to 4800 or others same with controller's, none, 8, 1.

Setup - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites History

Address <http://192.210.1.239/Setup.htm> Go

Controller Setup

IP address	192.210.1.239
Subnet mask	255.0.0.0
Gateway address	192.168.10.10
Network link speed	Auto
DHCP client	Disable
Socket port of HTTP setup	80
Client mode server IP address	0.0.0.0
Client mode server socket port	0
Packet mode of serial input	Disable
Device ID	12345
Report device ID when connected	Disable
Setup password	
Access password	
Serial Port 1	
Socket port	4001 TCP Server

Done

Chart 6

Setup - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites History

Address <http://192.210.1.239/Setup.htm> Go

Setup password	
Access password	
Serial Port 1	
Socket port	4001 TCP Server
Interface	RS 232
Baud rate, parity, data and stop bits	4800 None 8 1
Serial Port 2	
Socket port	0 TCP Server
Interface	RS 485 (Half Duplex)
Baud rate, parity, data and stop bits	9600 None 8 1
Digital I/O Port	
Socket port	102 TCP Server
Configuration	
IO1	Input
IO2	Output
IO3	Input
IO4	Input
IO5	Input
IO6	Input
IO7	Output
IO8	Input

Update

Done

Chart 7

四、The Hyper Terminal testing

All programs => Accessories => Communications => Hyper terminal

Please change to PCP/IP (Winsock) as following chart 8

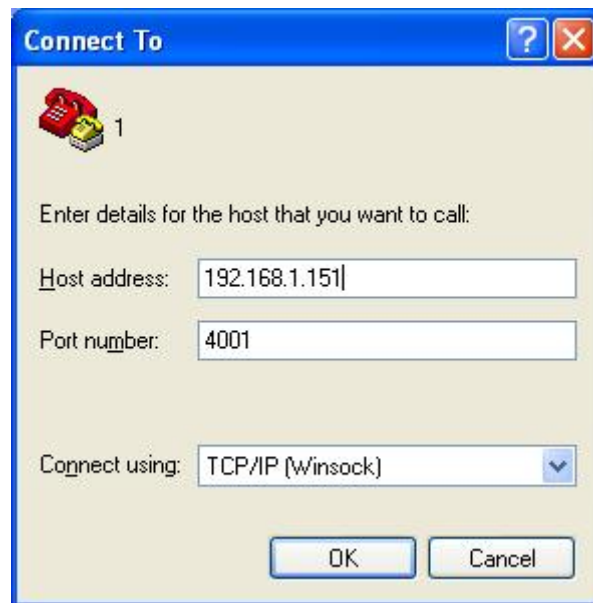


Chart 8

As following chart 9, if the left corner have connected time, mean it have connected with converter, if not mean didn't connect it, then please check the above setting detail again or the firewall to cause the problem, if it got quickly disconnection then mean the networking is not stable, please check with your engineer.

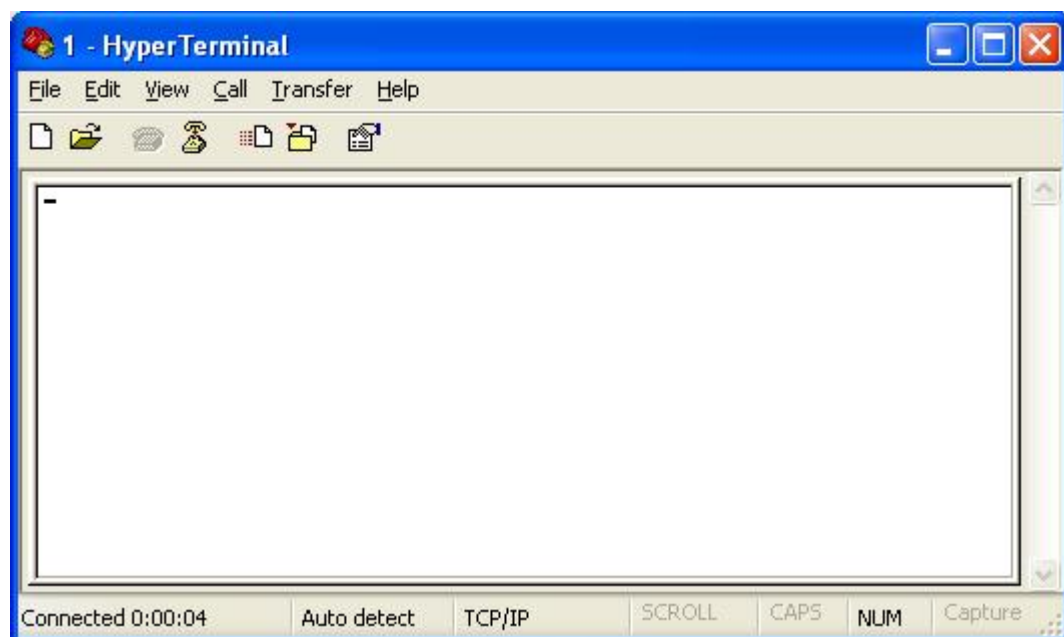


Chart 9

As the following chart 10 File => Properties => settings => ASCII please click all, and you can see the commands as chart 11, it mean you can have the test feedback by PCP832.

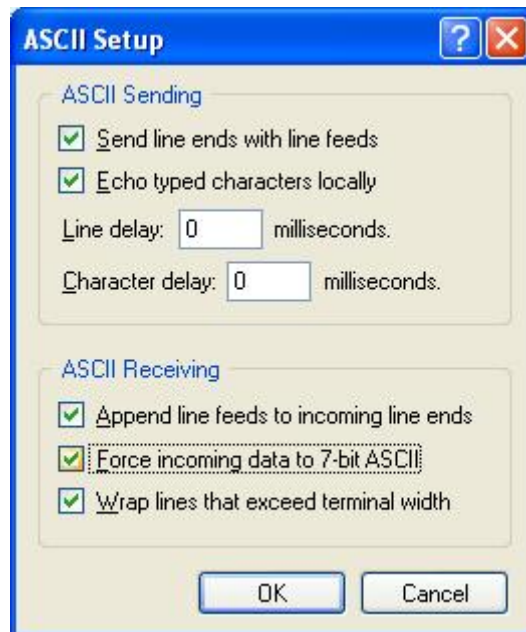


Chart 10

The testing commands are as following A00~A15, mean each channel's port no. , if it had normal feedback, mean the communication is successful. The following commands are A01 and A02, and have successful feedback also.

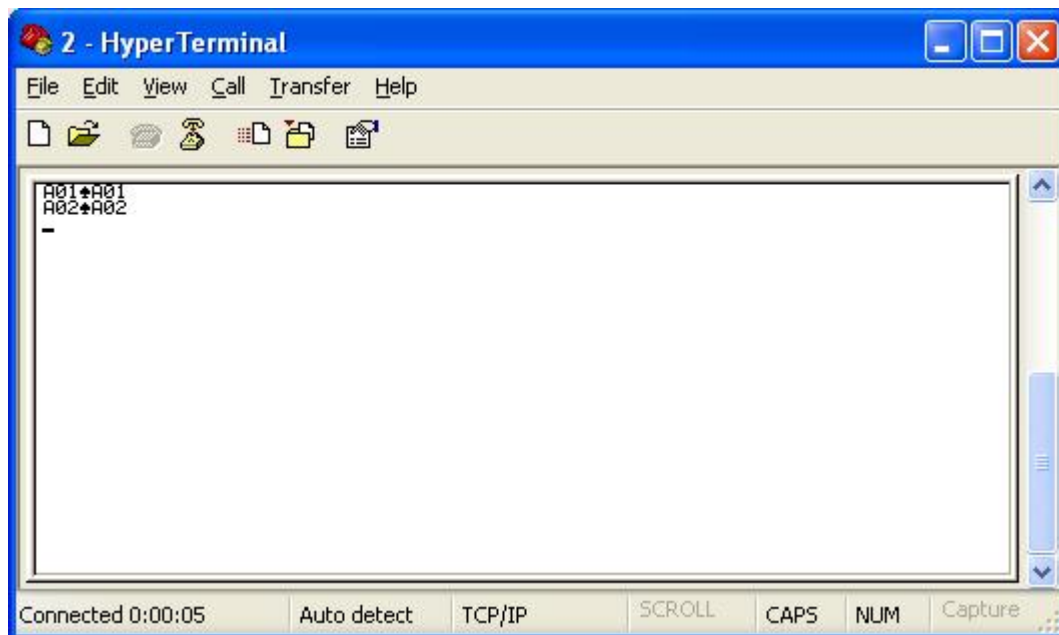


Chart 11

五、TestTCP

TestPCP is pegasus's test software as following charge 12

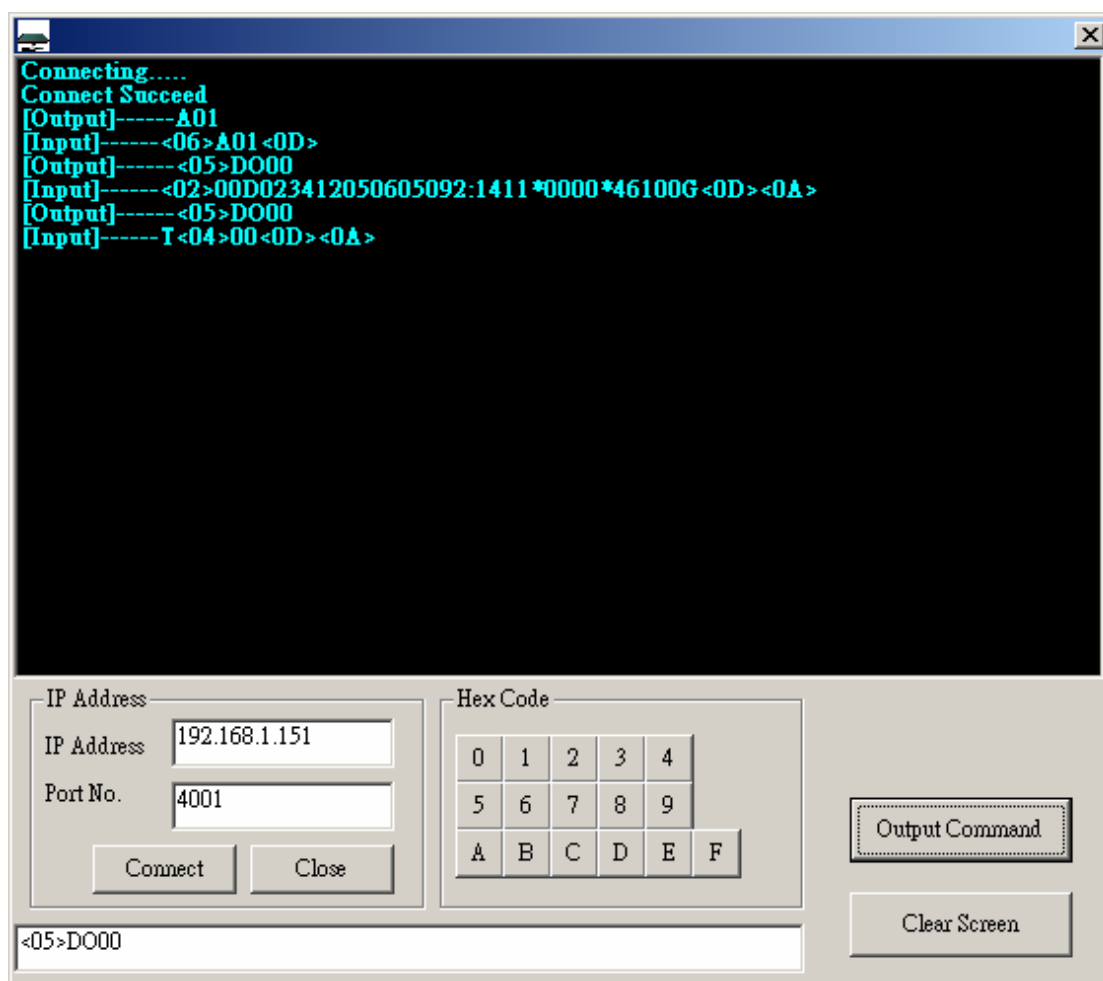


Chart 12

The operations are as following:

1. Enter the IP address and Port No. and click "Connect", it will successful if you got the feedback "Connect Succeed", if you want to stop the connection please enter "Close" then can disconnection.
2. The Hex Code: Click two button then can enter hexadecimal Ascii Code.
3. If the system have PCP832 then you need to open the channel firstly, the commands will be the each channel Port No.:A00~A15, then click "Output Command" to output the commands as above chart 12 to open address A01, if you got the feedback <06>A01<0D>, mean communication no problem or you may meet the problem between PC-T100 and PCP832.
4. To test the controller to have one reading record, the command

is :<05> DOaa, aa mean controller address, as above chart the address is 00, click “Output Command” to have feedback, T<04>00<0D><0A> mean Zero message or you can’t have feedback if the communication have problem between PCP832 and controller.

六、Hardware testing

Please also check the Hardware detail avoid to cause any trouble.

- 1.The cable is loosing out or not
- 2.The cable is wrong
- 3.The correct Hub and cable plug
- 4.have the driver of network adaptor
- 5.Does the network adaptor damage

The testing detail please check the following chart 13

For Win95/98/Me: Control panels => System => Device Manager

For Win2000/XP:All programs => Control panels => System => Device manager

As following chart 13, it will show out the series number of network adaptor, if it show out the “question mark”, mean you didn’ t ready the driver 、 have the wrong series number 、 didn’t detect the adaptor or the network adaptor damage.

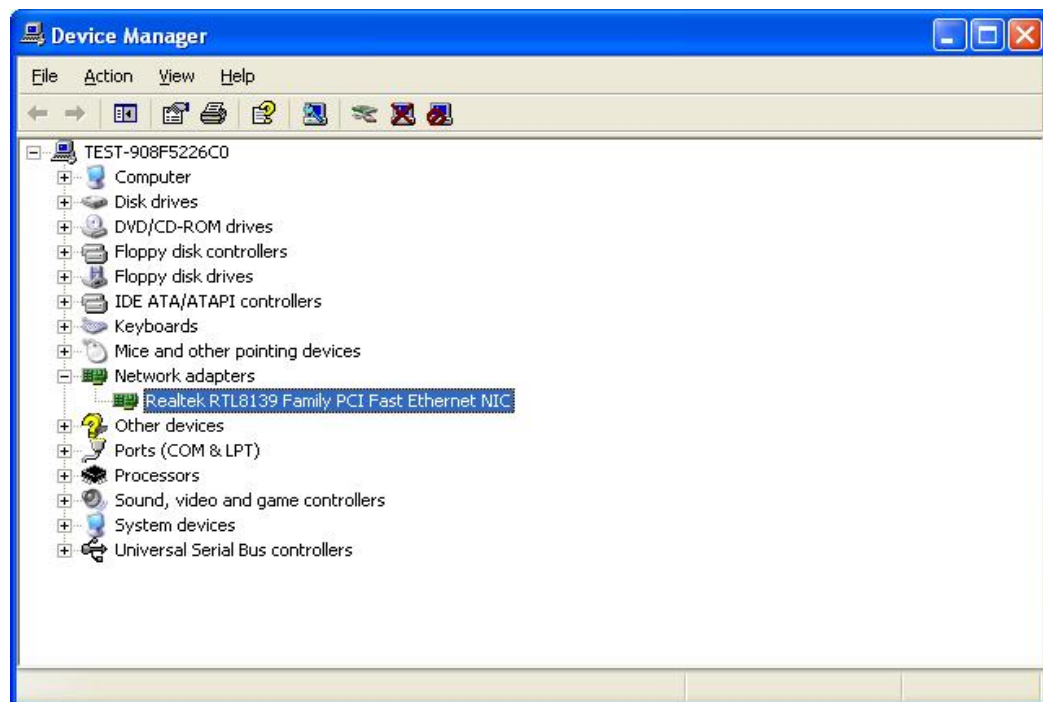


Chart 13