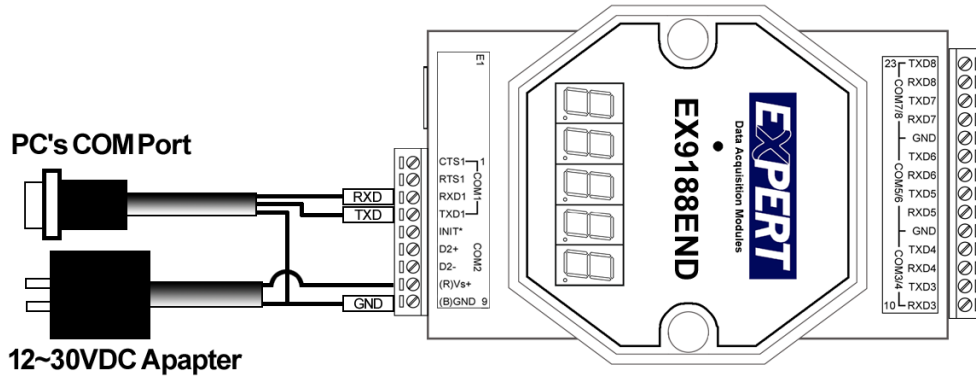


Quick Start

1. Wiring connection



2. Connect COM1 of Ex9188E to com1(2) of PC.
3. Under Hyperterminal of PC (**Com port setting: 57600,8,N,1**)
4. Power On Ex9188E(now Ex9188E will under TCP mode).
If need to place command from PC's COM port to Ex9188E
Please connect(touch) the INIT* pin to (B)GND and release,then Ex9188e will
under ROMDOS mode).
5. HyperTerminal of PC will show the boot message of EX9188E and DOS prompt (a:\>)
6. DOS command can be executed at command prompt as dir a:\; dir b:.
7. For file transfer or downloading file, please refer to Ex9188xd manual P.22.
8. For updating the contents of ROM DISK, please refer to Ex9188xd manual P.23&P.24(ROMDISK.EXE & TOROM.EXE).
9. Please refer to the Ex9188xd S/W manual to get others function & operation as RAMDISK, VDISK

Default COM port configuration:				
	Baudrate	Dtatbit	Parity	Stopbit
COM1	57600	8	N(none)	1
COM2	9600	8	N(none)	1
COM3	9600	8	N(none)	1
COM4	9600	8	N(none)	1
COM5	9600	8	N(none)	1
COM6	9600	8	N(none)	1
COM7	9600	8	N(none)	1
COM8	9600	8	N(none)	1

Torom.exe

TOROM.EXE is used to transfer the ROMDISK image file to Flash ROM of EX9188 module and the contents of Flash ROM of ROM disk will then be updated. The steps are listed below:

1. Connect Ex9188E module to PC. Use HyperTerminal as terminal.
2. run TOROM.EXE on Ex9188E
3. Under HyperTerminal, select:
Transfer→
Send file→
Protocal(Xmodem)→
File name→
OK.(Use Xmodem protocal & key in Rom image file name then execute file transfer function).
4. When ROM image file transmission is completed, reboot Ex9188E module.
5. You will see a updated ROM disk.

Note: When execute the TOROM.EXE on Ex9188E module, the process of step3 must be finished under 60 seconds otherwise timeout will occur. If timeout is the case, INIT* pin will have to be used to download the program to Flash ROM. Please refer to sec. 5.2 of H/W manual.

1.1 Infoset.exe

Some Ex9188E information are stored in Serial EPROM block 7 including model name, MAC address, IP address, Gateway address, and COM port data format. These information are easy to modify via infoset.exe.

Configuration of Ex9188E

Use INFOSET.EXE to read and write/set the Ex9188E

***** 9188End Infomation Setting Utility *****

M : Modify Model No 9188E1/E2/E3/E4/E5/E8

A : Modify MAC ADDR 0:10:f1:b6:7e:aa (Read Only)

I : Modify IP ADDR 211. 22. 83. 45

G : Modify Gateway 192. 9. 40.170

B : Modify Baudrate 1:57600 2:9600 3:9600 4:9600
5:9600 6:9600 7:9600 8:9600

D : Modify Databit 1:8 2:8 3:8 4:8 5:8 6:8 7:8 8:8

P : Modify Parity 1:0 2:0 3:0 4:0 5:0 6:0 7:0 8:0

S : Modify Stopbit 1:1 2:1 3:1 4:1 5:1 6:1 7:1 8:1

F : Factory Default

Q : quit

Table 5.1 Information Sequences Show on 5-digit LED

No	Format	Meaning
1	11111	Label 1
2	1XAAA	X: space, AAA:IP digit 1
3	2XAAA	X: space, AAA:IP digit 2
4	3XAAA	X: space, AAA:IP digit 3
5	4XAAA	X: space, AAA:IP digit 4
6	22222	Label 2
7	1AAAA	AAAA: baudrate of com1
8	2AAAA	AAAA: baudrate of com2
9	3AAAA	AAAA: baudrate of com3
10	4AAAA	AAAA: baudrate of com4
11	5AAAA	AAAA: baudrate of com5
12	6AAAA	AAAA: baudrate of com6
13	7AAAA	AAAA: baudrate of com7
14	8AAAA	AAAA: baudrate of com8
15	33333	Label 3
16	1XABC	X: space, A: databit, B: parity, C: stopbit of Com1
17	2XABC	X: space, A: databit, B: parity, C: stopbit of Com2
18	3XABC	X: space, A: databit, B: parity, C: stopbit of Com3
19	4XABC	X: space, A: databit, B: parity, C: stopbit of Com4
20	5XABC	X: space, A: databit, B: parity, C: stopbit of Com5
21	6XABC	X: space, A: databit, B: parity, C: stopbit of Com6
22	7XABC	X: space, A: databit, B: parity, C: stopbit of Com7
23	8XABC	X: space, A: databit, B: parity, C: stopbit of Com8
24	XXXXX	XXXXX: space

Xcom.exe support the following commands as Table 5.2, you can test them via NetTest on PC. NetTest will be introduced in the following section.

1.2 NetTest

This is a utility that lets you send and receive data to/from Ex9188E through TCP/IP. Users would have to specify the IP address of Ex9188E and the connection port by clicking on “connect”. Then the program should be ready for send commands to Ex9188E and receive data. The main purpose of NETTEST is used for diagnosing the network connection of Ex9188E.

You can install NetTest by double clicking setup.exe on NetTest directory and then the setup.exe will guide you to install the NetTest completely.

Fig5.1 shows the GUI of NetTest. Some skills to operate NetTest are as follows:

- Specify IP of Ex9188E and Connection port in “Server Setting” block.
- Press “Connect” bottom. “Connect” bottom will be changed to “DisConnect” bottom if connecting successfully and server information will show on “Server Information” block.
- Send commands list as Table5.2 via “Commands” block. Executes it by press ENTER on keyboard or press “Send” bottom. Ex9188E response will show on “9188E Response Window” block.
- Send string to COM port via “Send” block.
- Response will show on “Receive” block.

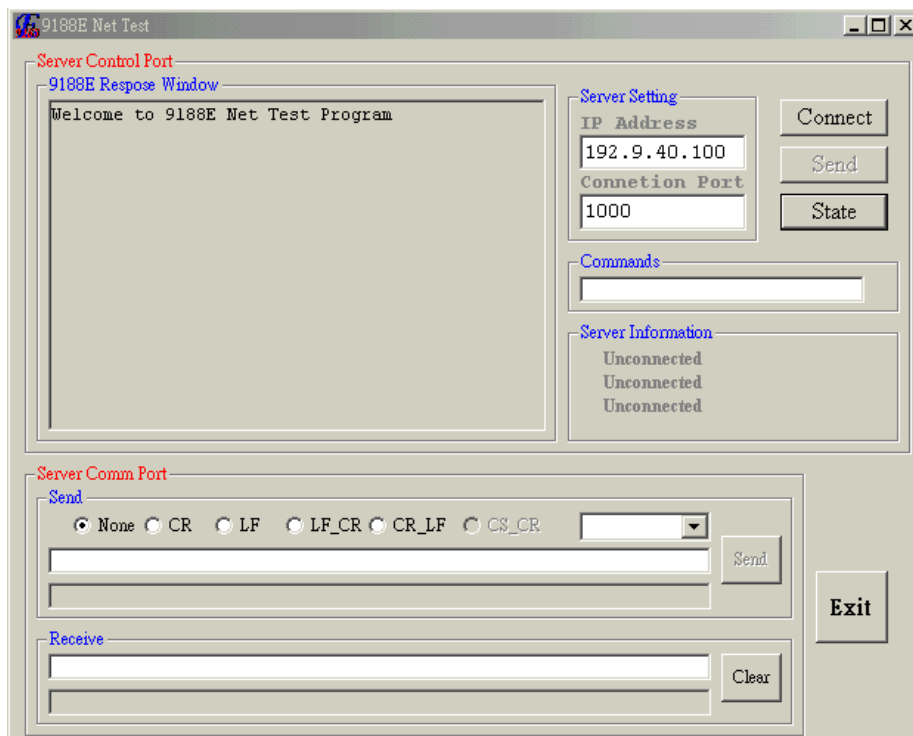


Fig 5.1 The GUI of NetTest

Use TCP/IP to connection then the TCP port 10000 is only for command and the port 10000+n are Belong to COMn for bypass data in bidirection

Example:

Please select the COM port which is connected to the RS485 Devices or EX9000 series of EX9188END to send the Command:

As \$01M then received !9041D

As \$012 then received !01400600

As \$01F then received !VER 1.A

Port 10000 can use the command as table 5.2

Table 5.2 Xcom.exe Support Commands

Command	Explanations	Example	
		Input	Return
00[<i>arg</i>]	Stop Server Xcom.exe. <i>Arg: quit</i> <i>Return:(none)</i>	00quit	(none)
01	Read version information. <i>Return: Vm.n.rr[mm/dd/yy]</i> <i>m: major version</i> <i>n: minor version</i> <i>rr: reversion number</i>	01	V1.0.00[01/06/2003]
02[<i>arg</i>]	Set baudrate of COM ports <i>Arg: NBBBB</i> <i>N: COM port no (1~8)</i> <i>BBBB: Baudrate to be set</i> (1200,2400,4800,9600,19200,38400, 57600,115200) <i>Return:</i> <i>ERROR: Fail,</i> <i>OK: Success.</i>	02257600	OK
03[<i>arg</i>]	Set data format of COM ports <i>Arg: NDPS</i> <i>N: COM port no (1~8)</i> <i>D:DataBit</i> (7, 8 ==> COM1~ COM2) (5, 6, 7, 8 ==> COM3 ~ COM8) <i>P:Parity</i> (0 ==> none parity) (1 ==> even parity) (2 ==> odd parity) <i>S:StopBit</i> (1 ==> COM1 ~ COM2) (1, 2 ==> COM3 ~ COM8)	032801	OK

	<p><i>Return:</i> ERROR: Fail, OK: Success.</p>		
06[<i>arg</i>]	<p>Set baudrate of COM ports and write the baudrate setting to SEEPROM.</p> <p><i>Arg: NBBBB</i> <i>N: COM port no (1~8)</i> <i>BBBB: Baudrate to be set</i></p> <p>(1200,2400,4800,9600,19200,38400,57600,115200)</p> <p><i>Return:</i> ERROR: Fail, OK: Success.</p>	0629600	OK
07[<i>arg</i>]	<p>Set data format of COM ports and write the data format setting to EEPROM.</p> <p><i>Arg: NDPS</i> <i>N: COM port no (1~8)</i> <i>D:DataBit</i> <i>(7, 8 ==> COM1~ COM2)</i> <i>(5, 6, 7, 8 ==> COM3 ~ COM8)</i> <i>P:Parity</i> <i>(0 ==> none parity)</i> <i>(1 ==> even parity)</i> <i>(2 ==> odd parity)</i> <i>S:StopBit</i> <i>(1 ==> COM1 ~ COM2)</i> <i>(1, 2 ==> COM3 ~ COM8)</i></p> <p><i>Return:</i> ERROR: Fail, OK: Success.</p>	072801	OK
08[<i>arg</i>]	<p>Set IP address.</p> <p><i>Arg: iiippIIIPPP</i> <i>iii/ppp/III/PPP: 3 digits number (000~255)</i></p> <p><i>Return:</i> ERROR: Fail, OK: Success.</p>	08192009040100	OK
10	<p>Read module name.</p> <p><i>Return:</i> <i>Module Name</i></p>	10	EX9188E
11[<i>arg</i>]	<p>Server test.</p>	11Hello!	Hello!

	<p><i>Arg:SSS</i> <i>String to be test.</i></p> <p><i>Return:</i> <i>SSS</i></p>		
12[<i>arg</i>]	<p>Set Gateway address.</p> <p><i>Arg: iiippIIIPPP</i> <i>iii/ppp/III/PPP: 3 digits number</i> <i>(000~255)</i></p> <p><i>Return:</i> <i>ERROR: Fail,</i> <i>OK: Success.</i></p>	12192009040254	OK
13	<p>Read Gateway address.</p> <p><i>Return:</i> <i>iii.ppp.III.PPP</i></p>	13	192.9.40.254
14	<p>Set Mask.</p> <p><i>Arg: iiippIIIPPP</i> <i>iii/ppp/III/PPP: 3 digits number</i> <i>(000~255)</i></p> <p><i>Return:</i> <i>ERROR: Fail,</i> <i>OK: Success.</i></p>	14255255255000	OK
15	<p>Read Mask.</p> <p><i>Return:</i> <i>iii.ppp.III.PPP</i></p>	15	255.255.255.0
16[<i>arg</i>]	<p>Read COM port setting.</p> <p><i>Arg:N</i> <i>N:COM port no(1~8)</i></p> <p><i>Return:</i> <i>baudreat,data,parity,stop</i></p>	162	19200,8,0,1
20[<i>arg</i>]	<p>Enable/Disable LED show information.</p> <p><i>Arg:E</i> <i>E:0=>disable, 1=>enable.</i></p> <p><i>Return:</i> <i>ERROR: Fail,</i> <i>OK: Success.</i></p>	201	OK
21	<p>Read MAC address.</p> <p><i>Return:</i> <i>Xx:xx:xx:xx:xx:xx</i></p>	21	00:00:f1:86:97:a6
99	Reboot 9188E	99	