7188E3 Quick Start



Refer below files to get more information:

- 1 7188e\Document\Readme.htm
- 2. 7188e\Document\7188E_Quick_Start.pdf
- 3. 7188e\Document\Introduction.pdf
- 4. 7188e\Document\7188eh.pdf
- 5. 7188e\Tcp\Vxcomm\Doc\Big5 or Eng or Gb2312\Vxcomm.htm
- 6. 7188e\Tcp\Xserver.htm
- 7. 7188e\Tcp\Xserver\Function.htm

1. Use 7188xw.exe to link 7188E3

Step 1: Run 7188xw.exe in host-PC to enter MiniOS7. Step 2: Use DIR command to get the default shipping of 7188E3 as follows:

```
ICP_DAS MiniOS7 for I-7188e Ver. 1.00 build 014,Aug 15 2001 13:53:26
SRAM:256K, FLASH MEMORY:256K
Serial number= 5A 5A 5A 5A 5A 5A 5A
i7188e>dir
0)autoexec.bat 10/29/2001 22:29:01 13[0000D]C002:0000-C002:000D
1)vxcomm.exe 10/23/2001 00:44:28 73674[11FCA]C004:000D-D201:0007
Total File number is 2 Free space=122825 bytes
i7188e>_
```

The Xserver, VxComm.exe, is the standard firmware when the 7188E series is shipped. It can support **virtual COM & Ethernet I/O applications** without any modification.

Step 3: Use "inp 0" to read D/I of 7188E3 as follows:



Step 4: Use "outp 0 value" to set D/O of 7188E3 as follows:



2. Use Client4.exe to link 7188E3

Step 1: Run 7188e\Tcp\Xserver\Client\Common\VB5\Client4\Client4.exe in host-PC. Press "Connect" button to connect to 7188E3. Send command "01", "10".

ECHO Clie Server I Server Por	DNS, IP: 192.168.30.23	Connect Isconnect	
Send	10	□ With CR	
Receive :	y3.0.00[10/22/2001]I∢ 7188E3I∢	01 (Fin	rmware version)
		10 (M	odule name)
	Clear	EXIT	
Status: Connection to 192	2.168.255		

Step 2: Send "161", "162" and "163" to readout COM port setting.

💐 Client side host name: I	DNS, IP: 192.168.30.23	X
ECHO Clier Server IF Server Por	nt 9 : 192.168.255.1 t : 10000	Connect Disconnect
Send	163	□ With CR
Receive :	v3.0.00[10/22/2001] 7188E3I 0600 8 N 11 1	161 (Setting of COM1)
	9600,8,N,11	162 (Setting of COM2)
	Olaar	162 (Setting of COM2)
Status: Connection to 192	.168.255	

Step 3: Send "170000" and "18000005" to access D/I/O of 7188E3.

💐 Client side host name: l	DNS, IP: 192.168.30.23		×	
ECHO Clier Server II Server Por	nt P : 192.168.255.1 t : 10000	Dis	onnect	
Send	18000005		UWith CR	
Receive :	7188E3I 9600,8,N,1I 9600,8,N,1I	-	170000 (Read valu	e of address 0)
	9600.8.N.H			
		_	18000005	
			(Output 05	to address 0)
	Clear			
Status: Connection to 192	.168.255			

- Step 4: Disconnect and then reconnect at port 10002.
- Step 5: Select "With CR" and then send "**\$02M**" to read 7000 module's ID which is connected to 7188E3's COM2.

🐂 Client side host name: l	DNS, IP: 192.168.30.23	×
F ECHO Clier	nt	
Server II	P : 192.168.255.1	Connect
Server Per	t:10002	Disconnect
3		
Send	DUZM	
Receive :	!027021 I	_
	Clear	
Status: Connection to 192.168.255		

Step 6: Disconnect and then reconnect at port 10003.

Step 7: Select "With CR" and then send "**\$03M**" to read 7000 module's ID which is connected to 7188E3's COM3.

🐂 Client side host name:	DNS, IP: 192.168.30.23	×
ECHO Clie Server II Server Po	nt P:192.168.255.1 t:10003 1	Connect Disconnect With CR
Receive :	!027021 !037060D	_
	Clear	EXIT
Status: Connection to 192.168.255		

3. Use SendTCP to link 7188E3

Step 1: Run SendTCP in host-PC.

👝 OrCAD Release 9	🕨 📝 Configure Wizard
💼 AllAPI Network	• Send232
💼 Icq	🕨 📝 Send TCP help
💼 HyperSnap-DX	🔸 👘 Send TCP
👼 7188e	🕨 🕞 PCDiag 🔸 🥡 Uninstall PC Diag
💼 Startup	•
🍋 🔺	•

🍓 Send TCP : 7188E/8000E Diagnostics App. v1.16	
Config TCP/IP [192.168.255.1] Connect Disconnect Send Clear Result Send Data: Send Send Receive : Clear Clear	Network Status Gateway: NC Mask: NC MAC: NC 7188E COM Status NC Set Fw. Ver. NC MiniOs7 Version NC Close

Step 2: Press "Connect" button to connect to 7188E3.

Send TCP : 7188E/8000E Diagnostics App. v1.16	
Config TCP/IP	Network Status Gateway: 192.168.0.1 Set Mask: 255.255.0.0 Set MAC: 00:80:31:00:01:1d Modify IP 7188E COM Status 9600,8,N,1 Set Fw. Ver. v3.0.01[11/19/2001] MiniOs7 Version v1.0.14(2001/8/1) Close

Step 3: Send command "10" to 7188E3.

Send TCP : 7188E/8000E Diagnostics App. v1.16	
Config TCP/IP [192.168.255.1 Connect Disconnect 7188E3 is connected 7188E3 Select Port: Port 1 Send Data with Port 1 Send Data: Send Data: Clear Clear	Network Status Gateway: 192.168.0.1 Mask: 255.255.0.0 MAC: 00:80:31:00:01:1d MAC: 00:80:31:00:01:1d Modify IP 00:80:31:00:01:1d 7188E COM Status 9600,8,N,1 Set Set Fw. Ver. v3.0.01[11/19/2001] MiniOs7 Version v1.0.14(2001/8/1)
	Close

Step 4: Select "**Port 2**" and "**CR**". Then send "**\$02M**" to read 7000 module's ID which is connected to 7188E3's COM2.

😋 Send TCP : 7188E/8000E Diagnostics App. v1.16	
Config TCP/IP [192.168.255.1 Connect Disconnect 7188E3 is connected Select Port: Port 2 C None CR LF C Send Data [24.30.32.4d. Receive : Clear [1027021 [21.30.32.37.30.32.31]	7188E Gateway: [192.168.0.1] Set Result Gateway: [192.168.0.1] Set Mask: [255.255.0.0] Set MAC: [00:80:31:00:01:1d] LF_CR C CR_LF Modify IP 7188E COM Status [9600,8,N,1] Set Fw. Ver. [v3.0.01[11/19/2001]] MiniOs7 Version WiniOs7 Version [v1.0.14(2001/8/1)] Close

If you want to change 7188E's COM ports settings, click "**Set**" to change them. The 7188E's COM port that you want to configure is specified by "**Select Port**" combo list. Port 2 means you want deal with 7188E's COM2.

🝓 Send TCP : 7188E/8000E Diagno	ostics App. v1.16		⊐×
Config TCP/IP 192.168.255.1 Connect Disconnect 7189E2 is connected 7189E2 is connected 7	Send Command To 7188E 10 Send Clear Result Baud: 115200 DataBit: 8 Parity: None StopBit 1 Value (Clear Result) None Value (Clear Result) Parity: 1 Value (Clear Result) Value (Clear Resul	Network Status Gateway: 192.168.0.1 Se 255.0.0 Se 0:31:00:01:1d Modify IP atus 2001] MiniOs7 Version V1.0.14(2001/8/1)	
		Close	

4. Use 7188E3.exe to link 7188E3

 $Step 1: Run 7188e \ Tcp \ Xserver \ Client \ Module \ 7188e3 \ Vb5 \ 7188E3.exe.$

👟 7188E3	
Server Connection Host IP: 192,168.255,1 Set IP Connect Exit Server Information Firmware Ver Server Name Server Configuration Gateway Set Mask Set	Server / COM1 Configuration Baud Rate 9600 Data : • • Parity • • COM Port Setting Stop : • • Send \$01M F CR Response CR
Echo Service Send Echo Test Response Send / Receive Data Send 01 Response	Configuration Baud Rate 9600 Data : Parity COM Port Setting Stop : Send \$01M CR Response
D/O D/O D D D D D D D D D D D D D D D D	Server / COM3 Configuration Baud Rate 9600 Data : • Parity • COM Port Setting Stop : • Send \$01M

Step2: Press "Connect" button. Then the program will send command to readout relative information about 7188E3 and start to scan DI of 7188E3.

🐃 7188E3	
Server Connection Host IP: 192.168.255.1 Set IP Disconnect Exit Server Information Firmware Ver Va 0.00[10/22/2001]D Server Name 7188E3D Server Configuration Gateway 192.168.0.1 Set Mask 255.255.0.0 Set	Server / COM1 Configuration Baud Rate 115200 Data : 8 Parity None COM Port Setting Stop : 1 Send \$01M CR Response CR Server / COM2
Echo Service Send Echo Test Response <11Echo Test>D Send / Receive Data Send 01 Response	Configuration Baud Rate 115200 Data : 8 Parity None COM Port Setting Stop : 1 Send \$01M CR Response
DIO D/O F Response D/I Response DF DF DF	Server / COM3 Configuration Baud Rate 115200 Data : 8 Parity None COM Port Setting Stop : 1 Send \$01M Response CR

Step 3: Send "10" to readout the module name.



Step 4: Connect 7188E3's DI0 and DO0 and then select check box to turn on D/O channel. 7188E3.exe will auto scan D/I status every 500 ms (determined in program code).



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Step 5: Send "\$02M" to read 7000 module's ID which is connected to 7188E3's COM2.

Γ	Server / COM2
	Configuration Baud Rate 9600 Data : 8
(Parity None COM Port Setting Stop : 1
	Send\$02MImage: CRResponse1027021□Image: LF

Step 6: Send "\$03M" to read 7000 module's ID which is connected to 7188E3's COM3.

- Server / COM3				
 Configura Baud Rational 	ation —— e <mark>19600 —</mark>	Data : <mark>8</mark>	-	
COM Po	rt Setting	Parity N Stop : 1	lone 👻	
Send	\$03M 1037060D		CR	

5. Modify Xserver

Step 1: Modify Xserver demos (for example: Demo6).

Step 2: Compile the project.

Step 3: Execute 7188xw.exe to link 7188E3.

Step 4: Delete all files in Flash memory.



Step 5: Download autoexec.bat and .exe file (for example: Demo6.exe).

i7188e>load				
File will save to COOO:0000				
StartAddr>B000:FFFF				
Press ALT_E to download file!				
Input filename:autoexec.bat				
Load file:autoexec.bat				
Send file info. total 1 blocks				
Block 1				
Iransfer time is: 0.056000 seconds				
i7188e>				
i7188e>load				
File will save to C002:000B				
StartAddr>C000:002A				
Press ALT_E to download file!				
Input filename:demo6.exe				
Load file:demo6.exe				
Send file info. total 270 blocks				
Block 270				
Iransfer time is: 14.553000 seconds				
171000				

- Step 6: Connect 7188E3's DI0 to GND and then restart 7188E3 to run new Xserver.
- Step 7: Run client program in host PC (for example: 7188E3.exe). The command protocol between client program and Xserver depandent on user-defined. Send command to 7188E3 to test new user-defined command in Xserver (for example:

19i address \rightarrow Read input value from address of 7188E3 19o address value \rightarrow Output value to address of 7188E3).

🐃 7188E3			
- Server Connection Host IP: 192,168,255,1 Set IP	- Server / COM1		
Disconnect Exit	COM Port Setting Stop : 1		
Server Name 7188E30	Send \$01M CR Response		
Mask 255.255.0.00 Set	Server / COM2		
Echo Service Send Echo Test Response <11Echo Test>0	Baud Rate 115200 Data : 8 - Parity None -		
Send / Receive D Send 19i 0 2	Send \$01M		
Response Sending the same	user-defined command can get value as sending command		
D/O C C C C C C C C C C C C C C C C C C C	DO3 DO2 DO1 ("170000".		
Response DI3 DI7 DI1 DI0	Parity None COM Port Setting Stop : 1		
D/I • • • •	Send \$01M CR Response		
	L]		