

WIZ140SR/WIZ145SR User Manual

(Version 1.0)





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1. Introductions

1.1 Main Features

- Support 4 Serial port
- Connect with the Serial Device directly
 - Adding network function simply and quickly
 - Providing Firmware customization
- High system stability and reliability by using W5300
- Easy and powerful configuration tool program
- Support DHCP and DNS function
- Support static as well as dynamic IP setting
- 10/100 Mbps Ethernet interface, Max 115,200bps serial interface
- RoHS compliant



1.2 Specifications

		WIZ140SR	WIZ145SR
	MCU	ARM-based 32-bit MCU	
	TCP/IP	W5300	
	PHY	Included in W5300	
Architecture		10/100Mbps Ethernet	
		Auto negotiation (Full-duplex and	d Half-duplex)
		Auto MDI/MDIX	
	Serial	RS-232C	
	Interface	TTL	
Sorial	Signals	TXD, RXD, RTS, CTS, GND	
Data	Parameters	Parity : None, Odd, Even	
Dala		Data bits : 7, 8 bit	
FUIL		Flow control : None, RTS / CTS,	XON / XOFF
	Speed	Up to 115,200bps	
Serial	Interface	TTL	
Debug	Signals	TXD, RXD	
Port	Parameters	Parity : None	
		Data bits : 8 bit	
		Flow control : None	
	Speed	115,200bps	
Dime	nsions	48.26mm x 35.56mm x	48.26mm x 61.4mm x 24.7mm
(Include cor	nnector size)	16.2mm	
Pin header	r Connector	2.54mm Pitch Pin-header, 14Pin	ı (1x14)
		2.54mm Pitch Pin-header, 28Pin	ı (2x14)
RJ-45 C	connector	None	1 RJ-45 Connector
Input	voltage	DC 3.3V	
Power co	nsumption	Under 200mA	
Tempo	erature	0°C ~ 70°C (Operation), -40°C ~	85°C (Storage)
Hun	nidity	10 ~ 80%	

Table 1 Specifications



2. Getting Start

2.1 Install Hardware

You prepared WIZ140SR Module or WIZ145SR module with Test board.

STEP1: Drop the WIZ140SR/WIZ145 Module in WIZ140SR/WIZ145SR Test Board.

STEP2: Connect Ethernet cable to RJ-45 connector on the Test Board

STEP3: Connect Serial Cable PC and Test Board

STEP4: If you check Debugging message from debug serial port, you connect the serial cable

PC and Debugging serial port of Test Board.

STEP5: connect to the power

*1. Boot selection pin is open, when working normal mode.

*2. H/W Trigger switch is OFF.

2.2 Configuration Tool Installation

Start the Configuration Tool Installation program, which can be downloaded from the WIZnet

home page. The captured screen of the Configuration tool is as shown below.

Board List 00:08:DC:15:D3:65	General Infomation	
A CONTRACTOR OF A CONTRACTOR A	Product Code WIZ14xSR Firmware Version 1,0 Debug Mode	
	Paddress mode PPPoE ID PW	
	Local Network Information DNS Server IP address	
	Local IP address 192 , 168 , 11 , 100 0 , 0 , 0 , 0	
	Subnet Mask 255 255 0 Serial Command Method Trigger Character (Hereits) Gateway address 192 168 11 1 Image: Character (Hereits)	ex)
	Status Not Connected UDP DNS Mode Remote Connection Local Port Remote IP address Remote Port Server Domain 0 0 0 0 0	
	Baud Rate 115200 - Data Bit 8 - Parity None - Flow Control None	J
	Data Packing Condition Disconnect Condition Character 00 Size 0 Time 0	
Firmware Upload Filename to upload	Upload Search Setting View Log Ex	it

Image 1 Configuration tool



3 Functions

3.1 Module Configuration thru TCP/IP

Basic Information for modules, WIZ140SR and WIZ145SR, can be set by using TCP/IP

network.

- Connect the module and PC, that has ConfigTool.exe installed, to the network of same subnet and turn on power.
- ② Click the Search button from the Tool program, then, all modules that are connected to the local network will display.
- ③ Use the Configuration Tool to modify the settings of each module.

Specific modification steps are explained after 3.3 of this document

3.2 Module Configuration thru Serial command

This function is used to modify the settings of the module by using Serial port.

Connect the cable to the module's Channel #1 serial port and switch the HW Trigger SW's pin

to 'ON." Then, Serial command mode is accessed.

* Caution! Once Serial command mode is activated, the connected TCP socket is disconnected, therefore, data exchange through the data channel is not possible.

3.2.1 Serial command Format

1 Byte	4 Bytes	(0 ~ 32 Bytes)	1Byte
STX ¹	Command code	Parameter	ETX ²

Image 2 Serial Command Frame Format

¹ STX : '<' (Hex code: 0x3C)

² ETX : '>' (Hex code: 0x3E)

WIZ140SR/WIZ145SR Datasheet

	Code	Parameter	Comments
General Info	R_PC	None	Get Product Code
	R_IP	None	Get Local IP Address
	W_IP	XXX.XXX.XXX.XXX	Set Local IP Address
	R_SN	None	Get Subnet Mask
	W_SN	XXX.XXX.XXX.XXX	Set Subnet Mask
	R_GW	None	Get Gateway Address
	W_GW	XXX.XXX.XXX.XXX	Set Gateway Address
	R_FW	None	Get Firmware Version
	R_DB	None	Get Debug mode value
	W_DB	0: Disable 1 : Enable	Set Debug mode value
	R_MD	None	Get IP setting mode value
	W_MD	0: Static 1: DHCP	Set IP setting mode value
		2 : PPPoE	
	R_CM	None	Get Serial command mode type
	W_CM	0: H/W trigger 1: S/W trigger	Set Serial command mode type
	R_SC	None	Get Serial command mode character
	W_SC	XXXXXX	Set Serial command mode character
	R_DS	None	Get DNS Server IP Address
	W_DS	XXX.XXX.XXX.XXX	Set DNS Server IP Address
	W_XX	None	Reboot module
Channel Info	RnSM	None	Get Socket operation mode
			n : channel number(0 ~ 3)
	WnSM	0: TCP Server	Set Socket operation mode
		1: TCP Client	n : channel number(0 ~ 3)
		2: Mixed	
	RnCS	None	Get Socket connection state
			n : channel number(0 ~ 3)
	RnDM	None	Get DNS mode value
			n : channel number(0 ~ 3)

3.2.2 Command code(Direction: Serial device -> MODULE)



WnDM	0: D	isabl	е			S	et DNS mode value
	1: E	nable	е			n	: channel number(0 ~ 3)
RnUM	Non	е				G	et UDP mode value
						n	: channel number(0 ~ 3)
WnUM	0: D	isabl	е			S	et UDP mode value
	1: E	nable	е			n	: channel number(0 ~ 3)
RnSI	Non	е				G	et Remote Peer's IP Address
						n	: channel number(0 ~ 3)
WnSI	xxx.	xxx.>	xx.xx	х		S	et Remote Peer's IP Address
						n	: channel number(0 ~ 3)
RnLP	Non	е				G	et Local port number
						n	: channel number(0 ~ 3)
WnLP	0~0	6553	5			S	et Local port number
						n	: channel number(0 ~ 3)
RnSP	Non	е				G	et Remote Peer's port number
						n	: channel number(0 ~ 3)
WnSP	0~0	6553	5			S	et Remote Peer's port number
						n	: channel number(0 ~ 3)
RnSD	Non	е				G	et Remote Peer's Domain name
						n	: channel number(0 ~ 3)
WnSD	xxxx	xxxx	xxxxx	xx(Variable)	S	et Remote Peer's Domain name
						n	: channel number(0 ~ 3)
RnBU	Non	е				G	et Serial configuration value(Baud
						ra	te, data bit, parity and flow control)
						n	: channel number(0 ~ 3)
WnBU	xxxx	(S	et Serial configuration value(Baud
	[Bau	lpr				ra	te, data bit, parity and flow control)
	0	1152	200	1	57600	n	: channel number(0 ~ 3)
	2	384	00	4	19200		
	4	960	0	5	4800	4	Bytes : [Baud][Data][Parity][Flow]
	6	240	0	7	1200		
	[Dat	a]					
	0	7bit		1	8bit		
	[Par	ity]					
	0		1		2		
	No	ne	Odd		Even		

WIZ140SR/WIZ145SR Datasheet



	[Flow Control]		
	0 1	2	
	None Xon/Xoff	RTS/CTS	
RnOC	None		Get Data Packing Condition 'Char'
			<i>n</i> : channel number(0 ~ 3)
WnOC	хх		Set Data Packing Condition Char
			n : channel number(0 ~ 3)
			ex) if value is 0x0D, then '0"D'
RnOS	None		Get Data Packing Condition 'Size'
WnOS	0 ~ 255		Set Data Packing Condition 'Size'
			<i>n</i> : channel number(0 ~ 3)
RnOT	None		Get Data Packing Condition 'Time'
			n : channel number(0 ~ 3)
WnOT	0 ~ 65535		Set Data Packing Condition 'Time'
			n : channel number(0 ~ 3)
RnOI	None		Get Inactivity Time value
			n : channel number(0 ~ 3)
WnOI	0 ~ 65535		Set Inactivity Time value
			<i>n</i> : channel number(0 ~ 3)

Table 2 Serial Command Code Table

3.2.3 Reply code(Direction: WIZ140SR/WIZ145SR -> Serial device)

Reply	Meaning
E	Serial command mode Start
S	Command Success
F	Command Fail
1	Invalid command
2	Invalid parameter

Table 3 Serial Command Reply Code Table



3.2.4 Example

3.2.4.1 Command for changing the IP address of the module



Image 3 Serial Command Example #1

3.2.4.2 Command for setting the Domain Name of Channel #1



Image 4 Serial Command Example #2

3.2.4.3 Command for reading the Local Port Number of Channel #3



Image 5 Serial Command Example #3

3.3 IP Accuisition Mode (Static, DHCP, PPPoE) Setting Function

This function is for setting how the module's IP address is going to be acquired.

3.3.1 Static

The Static IP address mode is used when assigning static IP address.

When Permanent IP address is assigned by the network manager,

First, click the Search button to find module that is connected to the network. (1)

³ In case of Set command, command W_XX must be sent at the end in order for the module to be configured.



- ② Select the module that the value will be assigned from the ListBox, which is shown at the left of the screen.
- 3 Select Static for the IP address mode,



④ Enter the assigned values for IP address, Subnet mask, and Gateway address,

Local IP address	192	8	168	10. E.M.	123	Ť	193
Subnet Mask	255	-63	255	32	255	lar.	0
Gateway address	192	3	168	12	123	4	254

(5)

(4)

Click	Setting	
•		••

3.3.2 DHCP

The DHCP IP address mode is used when equipment that assign dynamic IP, like routers are connected.

- ① First, click the Search button and find the module that is connected to the network.
- ② Select the module that the value will be assigned from the ListBox, which is shown at the left of the screen.
- 3 Select DHCP for the IP address mode,

IP addr C Sta	ess mode itic ⓒ DHCP	C PPPoE
	Setting	

When there is not a DCHP server, the DHCP process fails. When the DHCP process fails, booting completes with the existing network information after a period of time..



(5)

3.3.3 PPPoE

The PPPoE IP address mode is used for setting the environment which communicate based on PPPoE, like ADSL modem.

- 1 First, click the Search button and find the module that is connected to the network.
- ② Select the module that the value will be assigned from the ListBox, which is shown at the left of the screen,
- 3 Select Static for the IP address mode,

ID addroce r	modo		
IF audiess i	noue		
C. Ctatle	C DUCD	C DDD-E	
Statuc	UDUTCH	I FFFUE	

④ Enter values of the ID and PW for PPPoE access.

ID test	pw test
Lastly, click	Setting

3.4 Connection Mode (Server, Client, UDP) Setting Function 3.4.1 Server Mode

- ① First, click the search button and find the module that is connected to the network
- ② Select the module that the value will be assigned from the ListBox, which is shown at the left of the screen
- 3 Select Server for Connection mode,

- Operation	Mode
Server	C Client

(4) "Enter the Local Port value for Listen in the "Internet Connectivity Information box."

Local Port	Remote IP address		Remote Port
5000	0,0,0	, 0	5000



5 Lastly, click

* When Server mode is used, Remote IP address and Remote Port has no use.

3.4.2 Client Mode

- 1 First, click the Search button and find the module that is connected to the network
- ② Select the module that the value will be assigned from the ListBox, which is shown on the left of the screen
- 3 Select Client for Connection mode

Operation Mode C Server 🕞 Client

④ Enter the IP and Port number from the "Internet Connectivity Information box" into the "Remote IP address" and "Remote Port." Enter the Module's communication Port number into Local Port

5 Lastly, click Setting.

When Client mode is being used, the module continuously attempts connection to Remote IP address and Remote Port after booting.

3.5 DNS Setting Function

This function is used when Domain name is used due to server's frequent change and non-fixed server IP. If the server address is the Domain name instead of the IP address, this function must be used.



2 Select the module that the value will be assigned from the ListBox, which is shown on

the left of the screen,

3 Enter IP into DNS Server IP.

DNS Server IP address

④ Check the box for "DNS mode," and enter the Server Domain Name.

DNS Mode	
🔽 Use DNS	
Server Domain	
www.abc.com	

5 Enter the Port numbers for server and module.

Local Port	Remo	te IF	o ad	dre:	ss			Remote Port
35001	0	28	0	88	0	- 26	0	35001

6 Lastly, click

.

3.6 Real-time Debug Function

This function is used to check on the motion of the module when the module is attached to the system during the system development process. The Console port is used to read the debug code of the module in real time.



Disconnect COM Port Baud rate Data bits Parity Stop bits Handshaking Disconnect C 1 C 600 C 14400 C 57600 C 5 C none C 1 C 800 C 115200 C 5 C none C 1 C 8TS/CTS Help C 3 C 3 C 2000 C 28800 C 128000 C 7 C mark C 2 C 7TS/CTS+X0N/X0FF Quit C 5 C 100 C 9600 C 56000 C ustom C 8 C space C 2 C RTS/CTS+X0N/X0FF	
Settings Set font Auto Dis/Connect Time Stream log custom BR Rx Clear ASCII table Scripting CTS AutoStart Script CR=LF Stay on Top 230400 27 Graph Remote DSR Graph Remote DSR	CD RI
Receive Reset Counter 13 Counter = 34 CHEX Dec Bin StartLog StopLog	
Boot Ver1.3 > UPLOAD_IDLE >>>WIZ14X Ver1.0<<< [Date:2010.4.5] > W5300 Init > Get Config: Addr = 803f800 Config = 15dc0800 > Restarted normally > Setting Network Information > => Local MAC Address Setted > => Subnet Mask Setted > => Gateway Address Setted > isten[CH0] 0 > Listen[CH1] 0 > Listen[CH2] 0 > Listen[CH3] 0	
Transmit	R TS
Macros Set Macros M1 M2 M3 M4 M5 M6 M7 M8 M9 M10 M11 M12	
1234+567890+	Send
	~ >
Connected Rx: 763 Tx: 0	11

Image 6 Debugging from Debug serial port

3.7 Data Packetizing Function

This function is used to determine whether the data read from the serial port is going to be

sent to the remote server or client in some kind of Ethernet packet unit.

3.7.1 Character

The data is buffered in the internal memory of the module until the specific characters are received. Once the specific characters are received, the buffered data are made into one Ethernet packet and are sent to the remote system.



This function is appropriate when the end of data frame that the serial port sends to the module ends with specific characters.

- First, click search button, and find the module that is connected to the network.
 Select the module that the value will be assigned from the ListBox, which is shown on the left of the screen,
- 2 Enter the ASCII value of the character in the form of HEX code in the "Character"

section of the "Data Packing Condition" box. (Enter 0x00 for Disable)

aracter	00	Size	00	Time	00
---------	----	------	----	------	----

3 Lastly, click

3.7.2 Size

This function is used when data is buffered in the serial port until the received data amounts to a specific byte size, and when the received data amounts up to the specific byte size, the buffered data are made into one Ethernet packet and sent to the remote system.

This function is appropriate when size of the data, which is sent from the serial port to the module, is fixed.

① First, click Search button, and find the module that is connected to the network.

2 Select the module that the value will be assigned from the ListBox, which is shown on

the left of the screen

3 Enter the wanted size in the "Size" section of the "Data Packing Condition" box.

(Enter 0 for Disable)

					100000
"herecter	00	Size	10	Time	00

4 Lastly, click Setting.



3.7.3 Time

If there is not any new data during designated time, all data in the serial buffer is converted to Ethernet packet. If new data is received, the time is re-calculated and the received data is saved in the serial buffer. Time condition can be utilized when the serial data size is variable and has no ending character, but needs to be delivered in frame unit. (If the value is '0', option is not used)

① First, click Search button, and find the module that is connected to the network.

Select the module that the value will be assigned from the ListBox, which is shown on the left of the screen,

② Enter the wanted time information in the "Time" section of the "Data Packing Condition"

box. (Enter 0 for Disable)

-Data Packing Condition-		
Character 00	Size 0	Time 10

3 Lastly, click Setting.

3.7.4 Compound Settings

Among the three functions explained above, two or more can be mixed for use.



3.8 Inactivity Time Function

This function is used to forcibly disconnect the communication connection (TCP socket) when

there are no data exchange with the remote system for a certain period of time.

- First, click Search button, and find the module that is connected to the network.
 elect the module that the value will be assigned from the ListBox, which is shown on the left of the screen,
- Enter the wanted time information in the "Inactivity Time" section of the "Disconnect Condition" box. (Enter 0 for Disable)

Disconnect Condition	on
Inactivity Time	0

3 Lastly click Setting

3.9 Firmware uploading thru TCP/IP

This function is used for updating the module's Firmware

- ① First, click Search button, and find the module that is connected to the network.
- ② Select the module that the value will be assigned from the ListBox, which is shown on

the left of the screen,

③ Click local to select the binary file for update.

upioad '	
Upl	bad

4 Lastly, click

In order to use the Firmware upload function, an IP address for communication with the module must be set. Make sure to ping test to check the module is able to communicate.



3.10 Log Data save and report function

The module saves it operation and results in its memory; this function can load and read when the user wishes to. This function can be used to check on the problems when the communication with the remote system is not good. For example, things like, whether the serial device sent the data, or whether the module was down, or whether there was a problem with the communication circuit (ISP communication circuit), can be checked.

3.10.1 Log Data

3.10.1.1 Log Data Frame

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
	Time Inform	nation[0:3]		CODE	PARM1	PARM2	PARM3
	Log	time			Log	value	

Image 7 Log Data Frame

3.10.1.2 Code & Parameter

	Code Val	ue(4Byte)		Meaning	Remarks
CODE	PARM1	PARM2	PARM3		
0x01	0x00	0x00	0x00	Operation succeeded	
0x02	0x00	0x00	0x00	Operation failed	
0x10	0x00	0x00	0x00	Reboot	
0x11	0x00	0x00	0x00	DHCP init start	
0x12	0x00	0x00	0x00	DNS query start	
0x13	0x00	0x00	0x00	PPPoE init start	
0x20	n	0x00	0x00	Socket <i>n</i> Initialized	<i>n</i> : Socket #



0x21	n	0x00	0x00	Socket <i>n</i> Connecting
0x22	n	0x00	0x00	Socket n Listen
0x23	n	Size_H ⁴	Size_L⁵	Socket <i>n</i> lbytes data sent
0x24	n	Size_H	Size_L	Socket <i>n l</i> oytes data
				receved
0x25	n	0x00	0x00	Socketn Closed
0x30	0x00	0x00	0x00	FW Upload requested
0x31	0x00	0x00	0x00	FW Upload completed
0x32	0x00	0x00	0x00	FW Upload failed
0x40	0x00	0x00	0x00	Config Data Writing
0x41	0x00	0x00	0x00	Config Data Reading

Table 4 Log data code & parameter Table

 ⁴ Sent from Ethernet or higher byte among data size
 ⁵ Lower byte among data size
 WIZ140SR/WIZ145SR Datasheet



3.11 TCP Connection Status Function

This function is used to check the connection status for each channel of the module.

This can be checked through the H/W pin. If the value of the Pin is Low, the status is "Connected". If the value of the Pin is HIGH, the status is "Disconnected".

X In case of Serial command mode, all communication channels are forcibly cleared; and the

Connection status can't be checked through the serial.



4 Test

4.1 Operate in Server mode

4.1.1 Composition

Module	•	PC	
IP address(Static)	192.168.123.193	IP address	192.168.123.101
Ch# 1 Port number	5000	Port number	auto
Ch#1 Socket mode	Server	Socket mode	Client
Ch#1 Packing cond.	Time 10ms		
Ch#2 Port number	5001	Port number	auto
Ch#2 Socket mode	Server	Socket mode	Client
Ch#2 Packing cond.	Time 10ms		
Ch#3 Port number	5002	Port number	auto
Ch#3 Socket mode	Server	Socket mode	Client
Ch#3 Packing cond.	Disable		
Ch#4 Port number	5003	Port number	auto
Ch#4 Socket mode	Server	Socket mode	Client
Ch#4 Packing cond.	Size 10		

4.1.2 Operation Order

- ① First, click Search button, and find the module that is connected to the network.
- ② Select the module that the value will be assigned from the ListBox, which is shown on the left of the screen,
- 3 Channel #1 Configurations



Operation Mode	Status Not Connected	UDP	
DNS Mode	Remote Connection		
🗂 Use DNS	Local Port Re	emote IP address	Remote Port
Server Domain	5000	0,0,0,0	5000
Serial		114	10 00 10 <u>- 100 </u>
	Data Bit 8 🚽 Parity	None 🚽 Flow C	Control None
Baud Rate 115200 💽	and the second		
Baud Rate 115200			ndition

(4) Channel #2 Configurations

Operation Mode Server C Client	Status Not Co	onnected 🗖 l	JDP		
DNS Mode	-Remote Connec	tion			
Use DNS	Local Port	Remote IF	o address		Remote Port
Server Domain	5001	0,	0,0	. 0	5001
Serial Baud Rate 1200 J Data	Bit 8	Parity None	Disconr	Flow Cont nect Conditi tivity Time	trol None 💽

5 Channel #3 Configurations

Channel #1 Channel #2 Channel #	Channel #4		
Operation Mode Server C Client	Status Not Co	nnected 🔲 UDP	
DNS Mode	Remote Connec	tion	
🖵 Use DNS	Local Port	Remote IP address	Remote Port
Server Domain	5002	0,0,0,0	5002
[
- Serial			
Baud Rate 1200 - Data	a Bit 8 💽	Parity None y Flow Cor	ntrol None 🗾
- Data Packing Condition Character 00 Size 1) Time	0 Disconnect Cond Inactivity Time	ition e 0

6 Channel #4 Configurations

Operation Mode	Status Not Cor	nnected 🔽 UDP	
DNS Mode	Bemote Connecti Local Port	on Remote IP address	Remote Port
Server Domain	5003	0.0.0.	0 5003
Serial Baud Rate 1200 💽 Data	Bit 8	Parity None y Fl	ow Control None 🖵
Data Packing Condition Character 00 Size 1	0 Time	Disconnec Inactivi	t Condition ty Time 0



- 7 Click Setting
- (8) Apply the new values of the module and reboot.

Disconnect COM Port Baud rate Data bits Parity Stop bits Handshaking
Descari C 2 C 7 C 1200 C 19200 C 115200 C 6 C odd C RTS/CTS Help C 3 C 8 C 2400 C 28800 C 128000 C 7 C even C 1.5 C X0N/X0FF About. C 4 C 9 C 4800 C 38400 C 256000 C 7 C mark C 2 C RTS/CTS+X0N/X0FF Quit C 5 C 10 C 9600 C 56000 c ustom C 8 C space C 2 C RTS on TX
Set font Auto Dis/Connect Time Stream log custom BR RxClear ASCII table Scripting CTS CD Set font AutoStart Script CR=LF Stay on Top 230400 27 Graph Remote DSR RI
Receive Reset Counter 13 Counter = 130 C HEX Dec Bin StartLog StopLog
Boot Ver1.3 > UPLOAD_IDLE >>>WIZ14X Ver1.0<<< [Date: 2010.4.5] > VV5300 Init > Get Config: Addr = 803f800 Config = 15dc0800 > Restarted normally > Setting Network Information > => Local MAC Address Setted > => Subnet Mask Setted > => Cacal IP Address Setted > => Local IP Address Setted > Listen[CH0] 5000 > Listen[CH2] 5002 > Listen[CH3] 5003
Transmit CLEAR Send File Image: CR=CR+LF Image: DTR Image: RTS
Macros Set Macros M1 M2 M3 M4 M5 M6 M7 M8 M9 M10 M11 M12
1234+567890+. > Send
Connected Bur 2022 To 0

 $Image \ 8 \ \textbf{Console screen during module booting process}$

(9) Run the Socket communication program, and attempt connection.



🛃 Castalia Socket Tester	
<u>F</u> ile <u>A</u> ctions <u>O</u> ptions <u>H</u> elp	
· · · · · · · · · · · · · · · · · · ·	
My local IP Address: 192.168.123.101 Client Mode	
Connect to IP Address: 192.168.123.193	
Port: 5000	
Data to send:	<u>e</u>
	The second se
Transmission Log	
Transmission Log Connected to IP = 192.168.123.193 on server port #5000	
Transmission Log Connected to IP = 192.168.123.193 on server port #5000	~
Transmission Log Connected to IP = 192.168.123.193 on server port #5000	
Transmission Log Connected to IP = 192.168.123.193 on server port #5000	

Image 9 Screen after connecting to module with TCP/IP

① Connection with module can be checked by using the Debug terminal.



🦼 Terminal v1.9b - 20041226 - by Br@y++ 📃 🔲 🔀
Disconnect COM Port Baud rate Data bits Parity Stop bits Handshaking BeScan © 1 C 6 © 600 © 14400 © 57600 © 5 © none © 1 © none Help C 3 C 8 © 2400 © 28800 1 128000 © 6 © 4800 © 38400 © 256000 © 7 © mark © 2 © RTS/CTS+X0N/X0FF Quit © 5 C 10 © 9600 © 56000 © custom © 8 © 2 © RTS on TX
Set font Auto Dis/Connect Time Stream log custom BR R×Clear ASCII table Scripting CTS □ CD 230400 27 ↔ AscII table Remote □ DSR □ RI
Receive
Counter III Counter = 270 C HEX Dec Bin StartLog StopLog
Boot Ver1.3 > UPLOAD_IDLE >>>WIZ14X Ver1.0<<< [Date:2010.4.5] > WtS300 Init > Get Config: Addr = 803f800 Config = 15dc0800 > Restarted normally > Setting Network Information > => Local MAC Address Setted > => Subnet Mask Setted > => Gateway Address Setted > => Local IP Address Setted > Listen[CH1] 5001 > Listen[CH2] 5002 > Listen[CH3] 5003 > Connected[CH1]
Transmit CLEAR Send File Image: CR=CR+LF Image: DTR Image: RTS
Macros Set Macros M1 M2 M3 M4 M5 M6 M7 M8 M9 M10 M11 M12
1234+567890+ >> Send
Connected Rx: 6085 Tx: 0

Image 10 Consol screen after TCP Connection

(1) Repeat these steps with other channels to access, and data communication is enable.