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Getting Started with WIZ750SR-105

Supported Languages

- English (current page)
- Korean



* This section was written on the assumption that the use of WIZ750SR-105-EVB evaluation board.

Unpacking the WIZ750SR-105

What's in the Box?

Figure: WIZ750SR-105 Rev. 1.0 Evaluation Board Package

The WIZ750SR-105 evaluation board package contains the following parts.

- WIZ750SR-105 TTL Module
- WIZ105SR-EVB Evaluation Board (RS-232C interface)
- Cables (Ethernet / Serial)

The entire list of parts of the board is available at the WIZ750SR-105 Overview: Product Contents page.

Device Layout



Parts

- ARM Cortex-M0 based Hardwired TCP/IP core plus PHY Ethernet MCU W7500 ¹⁾ [1]
- PHY(Single 10/100M Ethernet Transceiver) [2]
- Ethernet Connector for connecting to LAN Cable [3]
- PNP Transistor for UART trans/receive indicate [4]
- Access to Boot mode Switch from App mode [5]
- Access to ISP mode Switch [6]
- Data Transmit Port(TTL level) [7]
- Buffer IC [8]
- Data Flash for saving device data [9]
- SWD(JTAG) port for use hardware debug port [10]

- Reset IC [11]
- **EEPROM** for saving device setting [12]
- Expansion ISP Port for firmware download [13]
- Expansion GPIO Port for 4-Pins user I/O [14]
- ESD Protect IC for protecting ethernet signal [15]

Interfaces and Ports

- Data Port(TTL): 2×6 2.00mm pitch SMD pin-header
- Network Port: RJ-45 Ethernet Connector
- User's Optional Port: 1×6 2.54mm Pin header 2ea (Debug UART2 pins(ISP) / 4-Pins user I/O)

Prerequisites for Setup

Software

- Configuration tool program (Download page)
- TCP server / TCP client / UDP terminal program
- Serial terminal program

Hardware

- Your WIZ750SR-105 module and Evaluation board
- Ethernet cable
- USB type B cable (for Debug UART)
- DB9 serial RS-232 cable (for Data UART, RS-232/TTL Ver. only)
- Power source for device
 - $\,\circ\,$ Such as 5V DC adapter, USB port on your computer, or 3.3V Power source
- UART2 pin is not mounted. Therefore, users can download ISP by using 'USB to UART module' to J2 connector.

Connect Your WIZ750SR-105

WIZ750SR-105 Factory Settings

			IP address		192.168.11.2		-	
Network Settings		Local	Gateway address		192.168.11.1	-		
	1		Subnet mask		255.255.255.0	-		
	s		DNS server		8.8.8.8	Google Public DN		DNS
			Port n	umber	5000		-	
		Domoto	IP address		192.168.11.3	-		
		emote	Port number		5000	-		
Serial Port Setting		Data	Data UART 115200-8-		I-1 / Flow Control: None		-	
		Debug	g UART	115200-8-N	-1 / Flow Contro	ol: None	Fixed	

	UserIO A	Analog / Input	Read only
llcor's 1/0 Sottings	UserIO B	Digital / Input	Read only
User's I/O Settings	UserIO C	Digital / Output	Read / Write
	UserIO D	Digital / Output	Read / Write

- Operation mode: **TCP server mode**
- Debug message: Enabled
- Serial command mode switch: **Enabled**
- Serial command mode switch code: +++ (hex code, [2B][2B]]2B])
- Data packing option Time: Disabled
- Data packing option Size: **Disabled**
- Data packing option Char: Disabled
- Inactivity Timer: **Disabled**
- Reconnection Timer: 3 second
- Keep-Alive: Enabled, 7-sec initial delay, 5-sec send interval

PC Settings

Double check that the WIZ750SR-105 and the PC, or laptop you are using to set up WIZ750SR-105 with are both on the same Ethernet network.

Example: PC Network Settings

* When the WIZ750SR-105's settings are factory default,

Network Settings	PC or laptop (= Remote)	IP address	192.168.11.3	-
		Gateway address	192.168.11.1	-
		Subnet mask	255.255.255.0	-
		Port number	5000	-

- User should to matching the network settings of 'WIZ750SR-105's remote host' and 'PC (or laptop)' for testing TCP client/mixed mode.
- If the DHCP(automatic IP allocation) is used, both the WIZ750SR-105 and test PC must be set to be assigned the same IP from the same router.

Connecting Steps

The WIZ750SR-105-EVB is designed to use the DB9 connector to connect with the user's serial device. Therefore, it is recommended to have all Ethernet and serial ports connected to the PC when testing. If the PC does not have a serial port, please purchase a RS-232 to USB converter separately.

Step 1: Plug in

Connect the WIZ750SR-105 module to evaluation board and also the cable as shown in the picture below.

- Ethernet Cable
 - Used to connect the evaluation board's RJ-45 connector and the PC's Ethernet network interface card (PC's RJ-45 connector)
- Serial Cable
 - Used to connect the evaluation board's DB9 connector and the serial interface card (DB9 connector). If the PC does support serial interface, use the RS-232 to USB converter.
- Optional: USB type B cable (for debug message)
 - Used to connect the evaluation board's USB connector and the PC's USB connector.

Figure: Combining WIZ750SR-105 module and EVB Figure: WIZ750SR-105-EVB side view

Step 2: Power on

Connect the 5V power adaptor or USB cable to the evaluation board and turn on the power switch.

• The power LED will turn red once the evaluation board is on.

Step 3: Search

Open the configuration tool and click the search button. If the board is turned on and connected to the same network, the MAC address or settings of the WIZ750SR-105 module can be checked using the configuration tool.

WIZ1075R / WIZ108SR Configuration	Tool Ver1.4.4.2		X		
🥘 Search 🖏 Setting 🕜 U	pload ঝ Reset 쑰 Factory 🥘	Ping 🌏 Firev	vall 🔞 Exit		
Serial to Ethernet	Network @ Serial O Options				
	Device network settings				
	Using the follow IP Address	DHCP	O PPPoE		
	Device IP address: 192.168.11.2		: 5000		
	Subnet mask: 255.255.255.0)			
	Gateway: 192.168.11.1				
	DNS server: 8.8.8.8				
	PPPoE ID:				
	PPPoE password:		Show chars		
	Select operation mode for the device				
	Remote IP/host name: 192.168.11.	3	5000		
	DDNS settings				
	Enable Host name:				
	DDNS: v	Port number: 30	30		
	DDNS ID: DDN	IS password:			
Find: 1 devices Ø 00:08:DC:1D:90:81			.:		
Figure:	WIZnet Configuratio	n Tool			

Step 4: Set up your WIZ750SR-105

Change the settings accordingly to the customer's environment. The test shown in this document is based on factory setting.

• Click the **setting** button to apply the changes in settings of the configuration tool.

Step 5: Connect

Connect the PC as the TCP client of the user's serial device for data communication testing. In order to do this, the serial terminal program / TCP client terminal program must be opened on the PC. The serial terminal program and TCP client program must be set as below.

- Serial terminal program: 115200-8-N-1, Flow control: None
- TCP client program: 192.168.11.2:5000 (The IP address and port number of WIZ750SR-105)

The COM port for serial terminal program connection can be checked as below.

• Control Panel > System > Device Manager



Step 6: Verify

The basic data communication of the WIZ750SR-105 can be verified as below.

- Serial to Ethernet: data communication verification
 - Enter the character string in the serial terminal and check if the identical character string appears on the TCP client terminal.
- Ethernet to Serial: data communication verification
 - Enter the character string in the TCP client terminal and check if the identical character string appears on the serial terminal.

Step 7: Done

Now you're ready to use the WIZ750SR-105!

- This document is based on the assumption of the PC as the serial device / remote network device.
- The next step is to connect the WIZ750SR-105 module to the target serial device and check if the device can communicate, control, and monitor via the remote PC or monitoring server.

If there is any problem? Please refer to our Troubleshooting Guide!

Navigation



• WIZ750SR-110 Getting Started Guide

• WIZ750SR-110 Datasheet

1)

W7500/W7500P are One-chip Ethernet MCU solution based on ARM Cortex-M0 architecture plus WIZnet hardwired TCP/IP core include Ethernet PHY. For more details, please refer to W7500 product page

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