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WIZ752SR Command Manual

Supported Languages

- [English](#) (current page)
- [Korean](#)



WIZ752SR Command Overview

WIZ752SR provides various commands for the product's setting and control. Each command is composed of a **2 byte alphabet character strings** and all **capital letters**. By using these commands users can add script to the serial device or main MCU for product settings, and also can create a program¹⁾ for controlling the WIZ750SR module via network.

Each command can operate read/write depending on the parameter, and there is also a **read only command**²⁾.

Entering the command and switching the command mode of the serial port device is done using the **data UART** port. The **debug UART** port is not supported for command entering or operation.

Identical 2-byte character strings is used for setting the product with commands via serial and Ethernet network, but there will a distinction of the sending frame form. Thus this document will cover explanations of all commands and guides for each sending methods and its form of frames.

The different command modes are as following.

- **Control device using serial command mode**
- **Control device using Ethernet network**

Abbreviations

CR	Carriage Return, moves the cursor to the far left(starting) position ('\r', 0x0D)
LF	Line Feed, moves the cursor to the new line below ('\n', 0x0A)
N	Number of commands
RW	Read / Write
RO	Read only

Usage of Command Set

Entering Serial Command Mode

You can use either of the two methods below to enter serial command mode.

- **1. Enter command mode using hardware trigger pin**

- Use the HW_TRIG pin of the WIZ750SR (For the EVB, HW_TRIG switch) to enter command mode.
- Upon turning the power on, check the pin to enter command mode. Use the trigger pin to re-enter the command mode when rebooting.
- The trigger pin should be pull-up, and operates as low active.
- This method is used when users wish to change settings while the product operation is initiated.

- 1. Set the hardware trigger pin(HW_TRIG) to Low.**

- When using the EVB, place the HW_TRIG switch to Command.

- 2. Power on the WIZ752SR.**

- When operating in serial command mode, users can check the following message via Debug UART port.

- ```
> SEG:AT Mode
```

- 3. Enter the Command and Parameter that needs setting via serial port<sup>3)</sup>.**

- 4. Switch to data transmission mode(GW mode) using EX command.**

- If the switch to data transmission mode is successful, users can check the following message via Debug UART port.

- ```
> SEG:GW Mode
```

- **2. Enter command mode using command mode switch code⁴⁾**

- Users can enter command mode using the command mode switch code provided by WIZ752SR.
- The command mode switch codes can be used only if it is enabled in the configuration tool. **(default: Enabled)**
- The command mode switch code is composed of 3-byte Hex codes, and can be changed to a different value if needed. The code only accepts Hex value. **(default: Hex [2B][2B][2B]⁵⁾**

- 1. Check if 'Serial command mode switch code' is enabled at the configuration tool and the 3-bytes 'command mode switch code'.**

- 2. Enter the 'command mode switch code' via data UART port to change modes.**

- Read below what you need to be cautious about when switching to command mode.
- When operating in serial command mode, users can check the following message via Debug UART port.

- ```
> SEG:AT Mode
```

- 3. Enter the Command and Parameter that needs setting via serial port.**

#### 4. Use **EX** command to switch to data transmission mode.

- When operating in data transmission mode, users can check the following message via Debug UART port.
- `> SEG:GW Mode`

#### Please be cautious when using the trigger code to switch command mode.

1. There has to be a time gap of **at least 500ms** at the start and end of the 'command mode switch code' in order it to be read as switch code.
2. The entering time in between each byte of the '3-byte command mode switch code' has to be **below 500ms**.
3. Do not add CR or LF at the end of the command mode switch code<sup>6)</sup>.
4. The default values of 1 and 2 above are **500ms**; these values change to the timer value if the timer value of the serial data packing option is set to a certain value.

## Serial Command Frame Format

You must include CR and LF at the end of each command. CR and LF must be included at the end of each commands when multiple commands are entered simultaneously.

### Get Request

```
[2-bytes Command Code] [CR] [LF]
```

- Enter command without parameter.
- The response relevant to the command will return.

### Set Request

```
[2-bytes Command Code] [Parameters] [CR] [LF]
```

- Enter the command and parameters you wish to set.
- There will be no particular response and the field value relevant to the command will change instantly.
- You have to use the **SV** command in order to save settings, and use the **RT** command to change IP allocation methods or other initial operation changes.

\* Note: You can check the Echoback of UART command via **EC** command.

## Command over Ethernet

Users can control or monitor WIZ752SR via Ethernet by using the following commands. The user must use **UDP** or **TCP client**<sup>7)</sup> to send commands, and the port number for processing the commands is **50001**.

**Network information for command transmission:**  
**UDP / TCP Server : 50001**  
(User can send the commands by UDP / TCP Client to device)

## Ethernet Command Frame Format

Two additional commands are required before sending the command code when controlling the WIZ752SR via Ethernet. All other settings and operations are the same as when sending the serial command code via data UART port.

The two additional commands are **MA** and **PW**.

- **[MA] command**

- This field shows the **product's MAC address**.
- In both cases of TCP and UDP, 6-byte MAC address must be included after the 2-byte MA command.
  - When users wish to broadcast only Get Request via UDP<sup>8)</sup>, the relevant field value can be set as the Broadcast MAC address<sup>9)</sup>. Users can receive responses from multiple peers. The search function of the configuration tool is implemented like this

- **[PW] command**

- User must send the setting value of the WIZ750SR after the PW command when using the '**Search ID Code**' to distinguish the product group.
- If the '**Search ID Code**' is not used, the PW command and the field between CR & LF (Search ID) must not be blank; enter the value of 0x20<sup>10)</sup>.

**The command frame for sending commands via Ethernet  
MUST be in the order of MA → PW → (Command x N).**

## Get Request

### When sending a single command

```
MA [MAC] [CR] [LF] PW [Search ID] [CR] [LF] [Command] [CR] [LF]
```

### When sending multiple commands

```
MA [MAC] [CR] [LF] PW [Search ID] [CR] [LF] ([Command] [CR] [LF]) * Number of
commands
```

- The response for 'get request' will have the identical format as 'request' but include the parameter<sup>11)</sup>.

## Set Request

### When sending a single command

```
MA [MAC] [CR] [LF] PW [Search ID] [CR] [LF] [Command] [Parameters] [CR] [LF]
```

### When sending multiple commands

```
MA [MAC] [CR] [LF] PW [Search ID] [CR] [LF] ([Command] [Parameters] [CR] [LF])
* Number of commands
```

- For 'Set Request', there is no additional response needed for changing the product setting.
- If users want to check the modified setting, send the command without parameter at the end of the 'Set Request frame'; in form of Set + Get Request.

## Ethernet Command Examples

### Example #1: UDP Get Command Frame

- When requesting MAC and local IP from multiple devices via UDP
  - Search ID is not used

#### Request from User

##### Command Frame

```
MA [FF FF FF FF FF FF] [CR] [LF] PW [] [CR] [LF] MC [CR] [LF] LI [CR] [LF]
```

##### Hex code version of Command Frame

```
4D 41 FF FF FF FF FF FF 0D 0A 50 57 20 0D 0A 4D 43 0D 0A 4C 49 0D 0A
```

#### Response by WIZ752SR

##### Command Frame

```
MA [00 08 DC 00 00 11] [CR] [LF] PW [] [CR] [LF] MC [00 08 DC 00 00 11] [CR]
[LF] LI [192.168.11.2] [CR] [LF]
```

##### Hex code version of Command Frame

```
4D 41 00 08 DC 00 00 11 0D 0A 50 57 20 0D 0A 4D 43 00 08 DC 00 00 11 0D 0A 4C
49 31 39 32 2E 31 36 38 2E 31 31 2E 32 0D 0A
```

### Example #2: TCP Get Command Frame

- When requesting the local IP of the device, which MAC address is 00:08:DC:00:00:11, via TCP

- Search ID is not used

#### Request from User

##### Command Frame

```
MA [00 08 DC 00 00 11] [CR] [LF] PW [] [CR] [LF] LI [CR] [LF]
```

##### Hex code version of Command Frame

```
4D 41 00 08 DC 00 00 11 0D 0A 50 57 20 0D 0A 4C 49 0D 0A
```

#### Response by WIZ752SR

##### Command Frame

```
MA [00 08 DC 00 00 11] [CR] [LF] PW [] [CR] [LF] LI [192.168.11.2] [CR] [LF]
```

##### Hex code version of Command Frame

```
4D 41 00 08 DC 00 00 11 0D 0A 50 57 20 0D 0A 4C 49 31 39 32 2E 31 36 38 2E 31
31 2E 32 0D 0A
```

#### Example #3: TCP Set Command Frame

- When requesting the local IP of the device, which MAC address is 00:08:DC:00:00:11, via TCP
  - If the Search ID is set to HELLO
  - Or if user wishes to change the local IP to 192.168.11.5

#### Request from User

##### Command Frame

```
MA [00 08 DC 00 00 11] [CR] [LF] PW [HELLO] [CR] [LF] LI [192.168.11.5] [CR]
[LF]
```

##### Hex code version of Command Frame

```
4D 41 00 08 DC 00 00 11 0D 0A 50 57 48 45 4C 4C 4F 0D 0A 4C 49 31 39 32 2E 31
36 38 2E 31 31 2E 35 0D 0A
```

#### Response by WIZ750SR

```
None
```

**When modifying the IP address format<sup>12)</sup>, '.'(dot, 0x2E) must be included such as the '192.168.11.5'.**

## Command list

- The Set command setting the applicable value will operate if the parameter is included when entering the command.
- The Get command reading the applicable value will operate if only the command is entered.
- If the 'Read only' sign does not appear, it means the command supports both Get / Set.
- Write only command is for controlling the product without the parameter<sup>13)</sup>.
- There is a basic command list<sup>14)</sup> and an expanded command list<sup>15)</sup>.
- Settings like IP allocation settings or DNS operation settings via command mode<sup>16)</sup> require 'module reboot' via **RT** command after the settings are saved via **SV** command.

### Basic Commands

| CMD       | Category           | Description                                   | Type |
|-----------|--------------------|-----------------------------------------------|------|
| <b>MC</b> | Device Information | MAC address                                   | RO   |
| <b>VR</b> |                    | Firmware version                              | RO   |
| <b>MN</b> |                    | Product name                                  | RO   |
| <b>ST</b> |                    | Operation status for channel 0                | RO   |
| <b>QS</b> |                    | Operation status for channel 1                | RO   |
| <b>UN</b> |                    | UART interface(Str)                           | RO   |
| <b>UI</b> |                    | UART interface(Code)                          | RO   |
| <b>OP</b> | Network Settings   | Network operation mode for channel 0          | RW   |
| <b>QO</b> |                    | Network operation mode for channel 1          | RW   |
| <b>IM</b> |                    | IP address allocation method (Static/DHCP)    | RW   |
| <b>LI</b> |                    | Local IP address                              | RW   |
| <b>SM</b> |                    | Subnet mask                                   | RW   |
| <b>GW</b> |                    | Gateway address                               | RW   |
| <b>DS</b> |                    | DNS server address                            | RW   |
| <b>LP</b> |                    | Local port number for channel 0               | RW   |
| <b>QL</b> |                    | Local port number for channel 1               | RW   |
| <b>RH</b> |                    | Remote host IP address / Domain for channel 0 | RW   |
| <b>QH</b> |                    | Remote host IP address / Domain for channel 1 | RW   |
| <b>RP</b> |                    | Remote host port number for channel 0         | RW   |
| <b>QP</b> |                    | Remote host port number for channel 1         | RW   |



| <b>CMD</b> | <b>Category</b>              | <b>Description</b>                                        | <b>Type</b>                                      |    |
|------------|------------------------------|-----------------------------------------------------------|--------------------------------------------------|----|
| <b>BR</b>  | Data UART Settings           | UART 0 Baud rate                                          | RW                                               |    |
| <b>EB</b>  |                              | UART 1 Baud rate                                          | RW                                               |    |
| <b>DB</b>  |                              | UART 0 Data bit                                           | RW                                               |    |
| <b>ED</b>  |                              | UART 1 Data bit                                           | RW                                               |    |
| <b>PR</b>  |                              | UART 0 Parity bit                                         | RW                                               |    |
| <b>EP</b>  |                              | UART 1 Parity bit                                         | RW                                               |    |
| <b>SB</b>  |                              | UART 0 Stop bit                                           | RW                                               |    |
| <b>ES</b>  |                              | UART 1 Stop bit                                           | RW                                               |    |
| <b>FL</b>  |                              | UART 0 Flow control                                       | RW                                               |    |
| <b>EF</b>  |                              | UART 1 Flow control                                       | RW                                               |    |
| <b>PT</b>  |                              | Serial Data Packing Options                               | Time delimiter for channel 0                     | RW |
| <b>NT</b>  | Time delimiter for channel 1 |                                                           | RW                                               |    |
| <b>PS</b>  | Size delimiter for channel 0 |                                                           | RW                                               |    |
| <b>NS</b>  | Size delimiter for channel 1 |                                                           | RW                                               |    |
| <b>PD</b>  | Char delimiter for channel 0 |                                                           | RW                                               |    |
| <b>ND</b>  | Char delimiter for channel 1 |                                                           | RW                                               |    |
| <b>IT</b>  | Options                      | Inactivity timer value for channel 0                      | RW                                               |    |
| <b>RV</b>  |                              | Inactivity timer value for channel 1                      | RW                                               |    |
| <b>CP</b>  |                              | Connection password enable (TCP server only)              | RW                                               |    |
| <b>NP</b>  |                              | Connection password (TCP server only)                     | RW                                               |    |
| <b>SP</b>  |                              | Search ID code                                            | RW                                               |    |
| <b>DG</b>  |                              | Serial debug message enable                               | RW                                               |    |
| <b>KA</b>  |                              | TCP Keep-alive enable for channel 0                       | RW                                               |    |
| <b>RA</b>  |                              | TCP Keep-alive enable for channel 1                       | RW                                               |    |
| <b>KI</b>  |                              | TCP Keep-alive initial interval for channel 0             | RW                                               |    |
| <b>RS</b>  |                              | TCP Keep-alive initial interval for channel 1             | RW                                               |    |
| <b>KE</b>  |                              | TCP Keep-alive retry interval for channel 0               | RW                                               |    |
| <b>RE</b>  |                              | TCP Keep-alive retry interval for channel 1               | RW                                               |    |
| <b>RI</b>  |                              | TCP Reconnection interval for channel 0 (TCP client only) | RW                                               |    |
| <b>RR</b>  |                              | TCP Reconnection interval for channel 1 (TCP client only) | RW                                               |    |
| <b>EC</b>  |                              | UART Echoback enable                                      | RW                                               |    |
| <b>TE</b>  |                              | Command Mode Switch Settings                              | Command mode switch code enable                  | RW |
| <b>SS</b>  |                              |                                                           | Command mode switch code (3-bytes Hex)           | RW |
| <b>EX</b>  |                              | Device Control                                            | Command mode exit (switch to data transfer mode) | WO |
| <b>SV</b>  |                              |                                                           | Save device setting                              | WO |
| <b>RT</b>  |                              |                                                           | Device reboot                                    | WO |
| <b>FR</b>  | Device factory reset         |                                                           | WO                                               |    |

## Extended Commands

| <b>CMD</b> | <b>Category</b>   | <b>Description</b>              | <b>Type</b> |
|------------|-------------------|---------------------------------|-------------|
| <b>CA</b>  | User I/O Settings | User I/O pin A type & direction | RW          |
| <b>CB</b>  |                   | User I/O pin B type & direction |             |
| <b>CC</b>  |                   | User I/O pin C type & direction |             |
| <b>CD</b>  |                   | User I/O pin D type & direction |             |

| CMD       | Category                   | Description                               | Type                                               |
|-----------|----------------------------|-------------------------------------------|----------------------------------------------------|
| <b>GA</b> | User I/O<br>Status / Value | User I/O pin A status or value            | Digital out: RW<br>Digital in: RO<br>Analog in: RO |
| <b>GB</b> |                            | User I/O pin B status or value            |                                                    |
| <b>GC</b> |                            | User I/O pin C status or value            |                                                    |
| <b>GD</b> |                            | User I/O pin D status or value            |                                                    |
| <b>SC</b> | Status I/O                 | Status pin S0 & S1 operation mode setting | RW                                                 |
| <b>S0</b> |                            | Status of pin S0 (PHY link or DTR)        | RO                                                 |
| <b>S1</b> |                            | Status of pin S1 (TCP connect or DSR)     |                                                    |

## Command Descriptions

### Device Information

#### MC

- **Format:**

```
MC[CR][LF]
```

- **Meaning:** Check product's MAC address
- **Command Type:** Read only
- **Return Type:** String
- **Return Value:**

```
MAC address with colons(:)
```

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
MC00:08:DC:00:00:01\r\n
```

#### VR

- **Format:**

```
VR[CR][LF]
```

- **Meaning:** Check the product's firmware version
- **Command Type:** Read only
- **Return Type:** String

- **Return Value:**

```
Firmware version with dots(.)
```

- ⇒ Major version number . Minor version number . Maintenance version number

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
VR1.0.0\r\n
```

---

## MN

---

- **Format:**

```
MN[CR][LF]
```

- **Meaning:** Check the product name
- **Command Type:** Read only
- **Return Type:** String
- **Return Value:**

```
Device model name
```

- ⇒ Default: WIZ750SR

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
MNWIZ750SR\r\n
```

---

## ST

---

- **ST** : Command for channel 0
- **QS** : Command for channel 1
- **Format:**

ST[CR][LF]

- **Meaning:** Check the product operation status
- **Command Type:** Read only
- **Return Type:** String
- **Return Value:**

| Status  | Description                                                   |
|---------|---------------------------------------------------------------|
| BOOT    | Boot mode; Users can update the product setting and firmware. |
| OPEN    | Status before TCP connection is successful.                   |
| CONNECT | Status after TCP connection is successful.                    |
| UPGRADE | Status during firmware update or DHCP IP allocation.          |
| ATMODE  | Serial AT command mode status.                                |
| UDP     | UDP mode status.                                              |

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
STATMODE\r\n
```

---

## UN

- **Format:**

UN[CR][LF]

- **Meaning:** Check product's UART Interface
- **Command Type:** Read only
- **Return Type:** String
- **Return Value:**

| UART Interface | Description                                                     |
|----------------|-----------------------------------------------------------------|
| RS-232/TTL     | Device supports UART input/output of RS-232C or TTL signals.    |
| RS-422/485     | Device supports UART input/output of RS-422 and RS-485 signals. |

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
UNRS-232/TTL\r\n
```

## UI

- **Format:**

```
UI[CR][LF]
```

- **Meaning:** Check product's UART Interface
- **Command Type:** Read only
- **Return Type:** Number (0 / 1)
- **Return Value:**

| Return value | Description                                                     | Remarks    |
|--------------|-----------------------------------------------------------------|------------|
| 0            | Device supports UART input/output of RS-232C or TTL signals.    | RS-232/TTL |
| 1            | Device supports UART input/output of RS-422 and RS-485 signals. | RS-422/485 |

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
UI0\r\n
```

## Network Settings

### OP

- **OP** : Command for channel 0
- **QO** : Command for channel 1
- **Format:**

```
OP<Parameter>[CR][LF]
```

- **Meaning:** Product's network operation mode
- **Command Type:** Read / Write
- **Parameter / Return Type:** Number (0 ~ 3)
- **Parameter / Return Value:**

| Parameter / Return value | Meaning         | Remarks                        |
|--------------------------|-----------------|--------------------------------|
| 0                        | TCP Client mode | -                              |
| 1                        | TCP Server mode | -                              |
| 2                        | TCP Mixed mode  | TCP Server / Client mixed mode |
| 3                        | UDP mode        | -                              |

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
OP0\r\n
```

- **With Parameter (Set)**

- No response
- Change the network operation mode

---

**IM**

---

- **Format:**

```
IM<Parameter>[CR][LF]
```

- **Meaning:** Product's IP address allocation method
- **Command Type:** Read / Write
- **Parameter / Return Type:** Number (0 ~ 1)
- **Parameter / Return Value:**

| Parameter / Return value | Meaning   | Remarks                            |
|--------------------------|-----------|------------------------------------|
| 0                        | Static IP | -                                  |
| 1                        | DHCP      | Obtain an IP address automatically |

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
IM0\r\n
```

- **With Parameter (Set)**

- No response
- Change product's IP address allocation method

---

**LI**

---

- **Format:**

```
LI<Parameter>[CR][LF]
```

- **Meaning:** Product's IP address
- **Command Type:** Read / Write
- **Parameter / Return Type:** String of IPv4 address form (including dot)
- **Parameter / Return Value:**

```
Ex> 192.168.11.2
```

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
LI192.168.11.2\r\n
```

- In HEX:

```
4C 49 31 39 32 2E 31 36
38 2E 31 31 2E 32 0D 0A
```

- **With Parameter (Set)**

- No response
- Change product's IP address

---

## SM

---

- **Format:**

```
SM<Parameter>[CR][LF]
```

- **Meaning:** Product's subnet mask
- **Command Type:** Read / Write
- **Parameter / Return Type:** String of IPv4 address form (including dot)
- **Parameter / Return Value:**

```
Ex> 255.255.255.0
```

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
SM255.255.255.0\r\n
```

- In HEX:

```
53 4D 32 35 35 2E 32 35
35 2E 32 35 35 2E 30 0D
0A
```

- **With Parameter (Set)**

- No response
- Change product's subnet mask

---

## GW

---

- **Format:**

```
GW<Parameter>[CR][LF]
```

- **Meaning:** Product's gateway address
- **Command Type:** Read / Write
- **Parameter / Return Type:** String of IPv4 address form (including dot)
- **Parameter / Return Value:**

```
Ex> 192.168.11.1
```

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
GW192.168.11.1\r\n
```

- In HEX:

```
47 57 31 39 32 2E 31 36
38 2E 31 31 2E 31 0D 0A
```

- **With Parameter (Set)**

- No response
    - Change product's gateway address

---

## DS

---

- **Format:**

```
DS<Parameter>[CR][LF]
```

- **Meaning:** Product's DNS address
- **Command Type:** Read / Write
- **Parameter / Return Type:** String of IPv4 address form (including dot)
- **Parameter / Return Value:**

```
Ex> 8.8.8.8
```

- Google Public DNS (IPv4)
  - 8.8.8.8
  - 8.8.4.4

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
DS8.8.8.8\r\n
```

- In HEX:

- **With Parameter (Set)**

- No response
    - Change Product's DNS



```
44 53 38 2E 38 2E 38 2E
38 0D 0A
```

---

## LP

---

- **LP** : Command for channel 0
- **QL** : Command for channel 1
- **Format:**

```
LP<Parameter>[CR][LF]
```

- **Meaning:** Product's port number
- **Command Type:** Read / Write
- **Parameter / Return Type:** Number (0 ~ 65535)
- **Parameter / Return Value:**

```
Ex> 5000
```

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
LP5000\r\n
```

- In HEX:

```
4C 50 35 30 30 30 0D 0A
```

- **With Parameter (Set)**

- No response
- Change product's port number

---

## RH

---

- **RH** : Command for channel 0
- **QH** : Command for channel 1
- **Format:**

```
RH<Parameter>[CR][LF]
```

- **Meaning:** Product's remote host IP address / Domain name
- **Command Type:** Read / Write
- **Parameter / Return Type:** String of IPv4 address form (including dot) or Domain string
- **Parameter / Return Value:**

```
Ex> 192.168.11.3
```

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
RH192.168.11.3\r\n
```

- In HEX:

```
52 48 31 39 32 2E 31 36
38 2E 31 31 2E 33 0D 0A
```

- **With Parameter (Set)**

- No response
- Change product's remote host IP address

---

## RP

---

- **RP** : Command for channel 0
- **QP** : Command for channel 1
- **Format:**

```
RP<Parameter>[CR][LF]
```

- **Meaning:** Product's remote host port number
- **Command Type:** Read / Write
- **Parameter / Return Type:** Number (0 ~ 65535)
- **Parameter / Return Value:**

```
Ex> 5000
```

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
RP5000\r\n
```

- In HEX:

```
52 50 35 30 30 30 0D 0A
```

- **With Parameter (Set)**

- No response
- Change product's remote host port number

## Data UART Settings

---

### BR

---

- **BR** : Command for channel 0
- **EB** : Command for channel 1
- **Format:**

```
BR<Parameter>[CR][LF]
```

- **Meaning:** Baud rate of serial interface (Data UART)
- **Command Type:** Read / Write
- **Parameter / Return Type:** Number (0 ~ 13)
- **Parameter / Return Value:**

| Parameter / Return value | Baud rate | Remarks |
|--------------------------|-----------|---------|
| 0                        | 300       | -       |
| 1                        | 600       | -       |
| 2                        | 1200      | -       |
| 3                        | 1800      | -       |
| 4                        | 2400      | -       |
| 5                        | 4800      | -       |
| 6                        | 9600      | -       |
| 7                        | 14400     | -       |
| 8                        | 19200     | -       |
| 9                        | 28800     | -       |
| 10                       | 38400     | -       |
| 11                       | 57600     | -       |
| 12                       | 115200    | -       |
| 13                       | 230400    | -       |

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
BR12\r\n
```

- **With Parameter (Set)**

- No response
    - Change baud rate of serial interface

---

### DB

---

- **DB** : Command for channel 0
- **ED** : Command for channel 1
- **Format:**

DB<Parameter>[CR][LF]

- **Meaning:** Data bit of serial interface (Data UART)
- **Command Type:** Read / Write
- **Parameter / Return Type:** Number (0 ~ 1)
- **Parameter / Return Value:**

| Parameter / Return value | Data bit | Remarks |
|--------------------------|----------|---------|
| 0                        | 7-bit    | -       |
| 1                        | 8-bit    | -       |

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
DB1\r\n
```

- **With Parameter (Set)**

- No response
- Change data bit of serial interface

## PR

- **PR :** Command for channel 0
- **EP :** Command for channel 1
- **Format:**

PR<Parameter>[CR][LF]

- **Meaning:** Parity bit of serial interface (Data UART)
- **Command Type:** Read / Write
- **Parameter / Return Type:** Number (0 ~ 2)
- **Parameter / Return Value:**

| Parameter / Return value | Parity bit | Remarks |
|--------------------------|------------|---------|
| 0                        | NONE       | -       |
| 1                        | ODD        | -       |
| 2                        | EVEN       | -       |

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
PR0\r\n
```

- **With Parameter (Set)**

- No response
- Change parity bit of serial interface

## SB

- **SB** : Command for channel 0
- **ES** : Command for channel 1
- **Format:**

```
SB<Parameter>[CR][LF]
```

- **Meaning:** Stop bit of serial interface (Data UART)
- **Command Type:** Read / Write
- **Parameter / Return Type:** Number (0 ~ 1)
- **Parameter / Return Value:**

| Parameter / Return value | Stop bit | Remarks |
|--------------------------|----------|---------|
| 0                        | 1-bit    | -       |
| 1                        | 2-bit    | -       |

### • Response

- **Without Parameter (Get)**

- In ASCII:

```
SB0\r\n
```

- **With Parameter (Set)**

- No response
- Change stop bit of serial interface

## FL

- **FL** : Command for channel 0
- **EF** : Command for channel 1
- **Format:**

```
FL<Parameter>[CR][LF]
```

- **Meaning:** Flow control of serial interface (Data UART) / (RS-232/TTL interface only)
- **Command Type:** Read / Write
- **Parameter / Return Type:** Number (0 ~ 2)
- **Parameter / Return Value:**

| Parameter / Return value | Flow control | Remarks               |
|--------------------------|--------------|-----------------------|
| 0                        | NONE         | -                     |
| 1                        | XON/XOFF     | Software flow control |
| 2                        | RTS/CTS      | Hardware flow control |

### • Response

- **Without Parameter (Get)**

- In ASCII:

- **With Parameter (Set)**

- No response

```
FL0\r\n
```

- Change flow control of serial interface

## Serial Data Packing Options

---

### PT

---

- **PT** : Command for channel 0
- **NT** : Command for channel 1
- **Format:**

```
PT<Parameter>[CR][LF]
```

- **Meaning:** Data packing of serial interface (Data UART) - Time delimiter<sup>17)</sup>
- **Command Type:** Read / Write
- **Parameter / Return Type:** Number (0 ~ 65535)
- **Parameter / Return Value:**

```
0: Not used / 1 ~ 65535: Data packing time (Unit: millisecond)
```

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
PT0\r\n
```

- **With Parameter (Set)**

- None
- Change the time delimiter value of serial data packing

### PS

---

- **PS** : Command for channel 0
- **NS** : Command for channel 1
- **Format:**

```
PS<Parameter>[CR][LF]
```

- **Meaning:** Data packing of serial interface (Data UART) - Data size delimiter<sup>18)</sup>
- **Command Type:** Read / Write
- **Parameter / Return Type:** Number (0 ~ 255)

- **Parameter / Return Value:**

0: Not used / 1 ~ 255: Data packing size (Unit: byte)

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
PS0\r\n
```

- **With Parameter (Set)**

- None
- Change the data size of serial data packing

---

## PD

---

- **PD** : Command for channel 0
- **ND** : Command for channel 1
- **Format:**

```
PD<Parameter>[CR][LF]
```

- **Meaning:** Data packing of serial interface (Data UART) - designated character delimiter<sup>19)</sup>
- **Command Type:** Read / Write
- **Parameter / Return Type:** 1-byte Character (Hex only)
- **Parameter / Return Value:**

00: Not used / Other: Designated character

- The designated character is not included in data.

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
PD00\r\n
```

- **With Parameter (Set)**

- None
- Change designated character delimiter of serial data packing

---

## Options

---

## IT

---

- **IT** : Command for channel 0
- **RV** : Command for channel 1
- **Format:**

```
IT<Parameter>[CR][LF]
```

- **Meaning:** Inactivity timer value for TCP connection close when there is no data exchange
- **Command Type:** Read / Write
- **Parameter / Return Type:** Number (0 ~ 65535)
- **Parameter / Return Value:**

```
0: Not used / 1 ~ 65535: Inactivity timer value (Unit: second)
```

- If the timer is active, the TCP connection closes when there is no data exchange.
- The timer restarts when there is an Ethernet data exchange before reaching entered inactivity timer value.

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
IT0\r\n
```

- **With Parameter (Set)**

- No response
- o Change inactivity timer value

---

## CP

---

- **Format:**

```
CP<Parameter>[CR][LF]
```

- **Meaning:** TCP connection password enable (TCP server mode only)
- **Command Type:** Read / Write
- **Parameter / Return Type:** Number (0 / 1)
- **Parameter / Return Value:**

```
0: Not used(Disabled) / 1: Used(Enabled)
```

- This option is only when the product is operating as **TCP server**.
- If this option is active, the TCP client wishing to connect to the device must send first the TCP connection password and confirmation for actual data to be transmitted.

- **Response**

- **Without Parameter (Get)**

- **With Parameter (Set)**



- In ASCII:

```
CP0\r\n
```

- No response
- Change whether TCP connection password enabled or not.

---

## NP

---

- **Format:**

```
NP<Parameter>[CR][LF]
```

- **Meaning:** TCP connection password (TCP server mode only)
- **Command Type:** Read / Write
- **Parameter / Return Type:** String (up to 8-bytes)
- **Parameter / Return Value:**

```
Default: None(Null)
```

- This option is applicable only when product is operating as **TCP server**.
- The password can be maximum of 8 characters.

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
NP\r\n
```

- **With Parameter (Set)**

- No response
- Change TCP connection password

---

## SP

---

- **Format:**

```
SP<Parameter>[CR][LF]
```

- **Meaning:** Search identification code
- **Command Type:** Read / Write
- **Parameter / Return Type:** String (up to 8-bytes)
- **Parameter / Return Value:**

```
Default: None(Null)
```

- If this option is active, only the products with matching ID are found via product search by configuration tool.
- Search ID code can be maximum of 8 characters.

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
SP\r\n
```

- **With Parameter (Set)**

- No response
- Change search ID code

---

**DG**

- **Format:**

```
DG<Parameter>[CR][LF]
```

- **Meaning:** Serial debug message enable (Debug UART port)
- **Command Type:** Read / Write
- **Parameter / Return Type:** Number (0 / 1)
- **Parameter / Return Value:**

```
0: Not used(Disabled) / 1: Used(Enabled)
```

- If this option is active, the product setting or error message will output via Debug UART port.

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
DG1\r\n
```

- **With Parameter (Set)**

- No response
- Change whether serial debug message enabled or not.

---

**KA**

- **KA :** Command for channel 0
- **RA :** Command for channel 1
- **Format:**

```
KA<Parameter>[CR][LF]
```

- **Meaning:** Keep-alive packet transmit enable for checking TCP connection established
- **Command Type:** Read / Write
- **Parameter / Return Type:** Number (0 / 1)
- **Parameter / Return Value:**

0: Not used(Disabled) / 1: Used(Enabled)

- If this option is active, the keep-alive packet is sent to the TCP connection peer according to the designated interval(KI / KE).
- If there is no response from the peer, the TCP connection will close and the socket will initialize (socket open).

#### • Response

##### • Without Parameter (Get)

- In ASCII:

```
KA1\r\n
```

##### • With Parameter (Set)

- No response
- Change whether keep-alive packet transmit enabled or not.

---

## KI

---

- **KI** : Command for channel 0
- **RS** : Command for channel 1
- **Format:**

```
KI<Parameter>[CR][LF]
```

- **Meaning:** Initial TCP keep-alive packet transmission interval value
- **Command Type:** Read / Write
- **Parameter / Return Type:** Number (0 ~ 65535)
- **Parameter / Return Value:**

```
0: Not used / 1 ~ 65535: Initial Keep-alive packet transmission interval
(Unit: millisecond)
```

- The keep-alive packet is sent to the TCP connection peer according to the designated packet transmission interval.
- Keep-alive packet transmission becomes active only when at least one Ethernet data transmission has been made.

#### • Response

##### • Without Parameter (Get)

- In ASCII:

```
KI7000\r\n
```

##### • With Parameter (Set)

- No response
- Change initial keep-alive packet transmission interval value

## KE

---

- **KE** : Command for channel 0
- **RE** : Command for channel 1
- **Format:**

```
KE<Parameter>[CR][LF]
```

- **Meaning:** TCP Keep-alive packet transmission retry interval value
- **Command Type:** Read / Write
- **Parameter / Return Type:** Number (0 ~ 65535)
- **Parameter / Return Value:**

```
0: Not used / 1 ~ 65535: Keep-alive packet transmission retry interval (Unit: millisecond)
```

- After the first keep-alive packet transmission is done, the next keep-alive packet is sent to the TCP connection peer according to the designated packet transmission interval.
- Keep-alive packet transmission becomes active only when at least one Ethernet data transmission has been made.

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
KE5000\r\n
```

- **With Parameter (Set)**

- No response
    - Change keep-alive packet transmission retry interval value

---

## RI

---

- **RI** : Command for channel 0
- **RR** : Command for channel 1
- **Format:**

```
RI<Parameter>[CR][LF]
```

- **Meaning:** TCP client reconnection interval value (TCP client only)
- **Command Type:** Read / Write
- **Parameter / Return Type:** Number (0 ~ 65535)
- **Parameter / Return Value:**

```
0: Not used / 1 ~ 65535: TCP client reconnection interval (Unit: millisecond)
```

- If the TCP connection between the server is not successful during TCP client mode, the interval value between the next connection attempt is set.

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
RI3000\r\n
```

- **With Parameter (Set)**

- No response
- Change TCP client reconnection interval value

---

## EC

---

- **Format:**

```
EC<Parameter>[CR][LF]
```

- **Meaning:** UART Echoback function enable (Data UART port)
- **Command Type:** Read / Write
- **Parameter / Return Type:** Number (0 / 1)
- **Parameter / Return Value:**

```
0: Not used(Disabled) / 1: Used(Enabled)
```

- If this option is enabled, the received serial data becomes Echoback via serial port (Data UART).
- This function can be used to check what the user enters via serial command mode.

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
EC0\r\n
```

- **With Parameter (Set)**

- No response
- Change whether UART echoback function enabled or not.

## Command Mode Switch Settings

---

## TE

---

- **Format:**

```
TE<Parameter>[CR][LF]
```

- **Meaning:** Serial command mode switch code enable
- **Command Type:** Read / Write
- **Parameter / Return Type:** Number (0 / 1)
- **Parameter / Return Value:**

0: Not used(Disabled) / 1: Used(Enabled)

- This function must be active in order to enter serial command mode via 3-byte command mode switch code.

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
TE1\r\n
```

- **With Parameter (Set)**

- No response
    - Change weather command mode switch code enabled or not

---

## SS

---

- **Format:**

```
SS<Parameter>[CR][LF]
```

- **Meaning:** Serial command mode switch code
- **Command Type:** Read / Write
- **Parameter / Return Type:** String (3-byte hex only)
- **Parameter / Return Value:**

Default: 0x2B 0x2B 0x2B

- The command mode switch code must be composed of 3-byte(3 characters) hex code.

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
SS2B2B2B\r\n
```

- **With Parameter (Set)**

- No response
    - Change command mode switch code

## Device Control

---

### EX

---

- **Format:**

```
EX[CR][LF]
```

- **Meaning:** Command mode exit
- **Command Type:** Write only (Control)
- **Parameter / Return:** None
- **Response**

- **Without Parameter**

- No response
- Command mode exit and switch to data transmission mode

- While the serial debug message is being used, the following mode switch message will output via Data/Debug UART ports once the switch to data transmission mode is successful.

- > SEG:GW Mode
- 

### SV

---

- **Format:**

```
SV[CR][LF]
```

- **Meaning:** Save changed settings
- **Command Type:** Write only (Control)
- **Parameter / Return:** None
- **Response**

- **Without Parameter**

- No response
  - Save changed settings
- 

### RT

---

- **Format:**

RT[CR][LF]

- **Meaning:** Device reboot
- **Command Type:** Write only (Control)
- **Parameter / Return:** None
- **Response**

- **Without Parameter**
  - No response
  - All operations are closed and device reboot

- While the serial debug message is being used, the following message will output via data UART
  - > REBOOT

---

## FR

---

- **Format:**

FR[CR][LF]

- **Meaning:** Device factory reset
- **Command Type:** Write only (Control)
- **Parameter / Return:** None
- **Response**

- **Without Parameter**
  - No response
  - Reset to device factory default setting

- The device's default setting values can be found at [WIZ750SR Factory Settings](#)
- The device reboots after factory reset, like **RT** command.
  - While the serial debug message is being used, the following message will output via data UART.
    - > REBOOT

---

## User I/O Settings

---



## CA - CD

---

- **Format:**

```
Gx<Parameter>[CR][LF] (CA ~ CD)
```

- **Meaning:** User I/O pin setting (type / direction)
- **Command Type:** Read / Write
- **Parameter / Return Type:** Number (0 ~ 2)
- **Parameter / Return Value:**

| Parameter / Return value | I/O Setting    | Remarks |
|--------------------------|----------------|---------|
| 0                        | Digital input  | -       |
| 1                        | Digital output | -       |
| 2                        | Analog input   | -       |

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
CA2\r\n
```

```
CB0\r\n
```

- **With Parameter (Set)**

- No response
    - Change user I/Os setting

## User I/O Status / Value

---

## GA - GD

---

- **Format:**

```
Gx<Parameter>[CR][LF] (GA ~ GD)
```

- **Meaning:** User I/O pin status or value
- **Command Type:** Read / Write
- **Parameter / Return Type:** Number (Digital in/out: 0/1, Analog in: 0 ~ 4095)
- **Parameter / Return Value:**

| I/O Setting    | Parameter / Return value | Remarks |
|----------------|--------------------------|---------|
| Digital in/out | 0                        | Low     |
|                | 1                        | High    |

| I/O Setting | Parameter / Return value | Remarks               |
|-------------|--------------------------|-----------------------|
| Analog in   | 0 ~ 4095                 | 12-bit ADC resolution |

- Digital out: R/W
- Digital in: Read only
- Analog in: Read only

#### • Response

|                                                                                                                                                                                                                                  |                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• <b>Without Parameter (Get)</b> <ul style="list-style-type: none"> <li>◦ In ASCII:<br/>GA4095\r\n (Analog input)</li> <li>◦ In ASCII:<br/>GC0\r\n (Digital input)</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• <b>With Parameter (Set)</b> <ul style="list-style-type: none"> <li>◦ No response</li> <li>◦ Change user I/O status - High or Low, <b>Digital output only</b></li> </ul> </li> </ul> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Status I/O

### SC

#### • Format:

```
SC<Parameter_0><Parameter_1>[CR][LF]
```

- **Meaning:** Set status I/O pin **S0(PA\_10)** and **S1(PA\_01)** operation mode
- **Command Type:** Read / Write
- **Parameter / Return Type:** Number (0/1)
- **Parameter / Return Value:**

#### • Parameter\_0 (upper byte)

| Parameter / Return value | Meaning         | Remarks                               |
|--------------------------|-----------------|---------------------------------------|
| 0                        | PHY link status | Default                               |
| 1                        | DTR             | Data Terminal Ready (RS-232/TTL only) |

#### • Parameter\_1 (lower byte)

| Parameter / Return value | Meaning               | Remarks |
|--------------------------|-----------------------|---------|
| 0                        | TCP connection status | Default |

| Parameter / Return value | Meaning | Remarks                          |
|--------------------------|---------|----------------------------------|
| 1                        | DSR     | Data Set Ready (RS-232/TTL only) |

• **Response**

|                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• <b>Without Parameter (Get)</b> <ul style="list-style-type: none"> <li>◦ In ASCII: (Connection Status)</li> </ul> <pre>SC00\r\n</pre> <ul style="list-style-type: none"> <li>◦ In ASCII: (DTR / DSR)</li> </ul> <pre>SC11\r\n</pre> </li> </ul> | <ul style="list-style-type: none"> <li>• <b>With Parameter (Set)</b> <ul style="list-style-type: none"> <li>◦ No response</li> <li>◦ Change status I/O pins operation mode</li> </ul> </li> </ul> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**S0**

• **Format:**

```
S0<Parameter>[CR][LF]
```

- **Meaning:** Status I/O pin **S0(PA\_10)** value
- **Command Type:** Read only
- **Parameter / Return Type:** Number (0/1)
- **Parameter / Return Value:**

• **When operating via PHY link status pin**

| Return value | Meaning       | Remarks |
|--------------|---------------|---------|
| 0            | PHY link up   | -       |
| 1            | PHY link down | -       |

• **When operating via DTR(Data Terminal Ready) pin**

- Signal that the device communication is ready (RS-232, Output)
- Connects with peer device's DSR pin

| Return value | Meaning                             | Remarks |
|--------------|-------------------------------------|---------|
| 0            | The device is not ready             | -       |
| 1            | The device ready for communications | -       |

• **Response**

|                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• <b>Without Parameter (Get)</b> <ul style="list-style-type: none"> <li>◦ In ASCII:</li> </ul> <pre>S00\r\n</pre> </li> </ul> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

---

## S1

---

- **Format:**

```
S1<Parameter>[CR][LF]
```

- **Meaning:** Status I/O pin **S1(PA\_01)** value
- **Command Type:** Read only
- **Parameter / Return Type:** Number (0/1)
- **Parameter / Return Value:**

- **When operating via TCP connection status pin**

- TCP server / client / mixed mode only

| Return value | Meaning                    | Remarks |
|--------------|----------------------------|---------|
| 0            | TCP connection established | -       |
| 1            | TCP disconnected           | -       |

- **When operating via DSR(Data Set Ready) pin**

- Signal detect that the peer device communication is ready (RS-232, Input)
- Connect with peer device's DTR pin

| Return value | Meaning                                  | Remarks |
|--------------|------------------------------------------|---------|
| 0            | The peer device is not ready             | -       |
| 1            | The peer device ready for communications | -       |

- **Response**

- **Without Parameter (Get)**

- In ASCII:

```
S10\r\n
```

---

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WI

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2019/03/25 11:51 · [jameskim](#)

<sup>1)</sup>

The **Configuration tool** provided by WIZnet uses the identical command set to control WIZ750SR.

<sup>2)</sup>

For example, when the **MC** command for checking the MAC address and the **VR** command for checking the firmware are identical.

<sup>3)</sup>

Data UART port

4)

Command mode switch trigger code via Data UART port

5)

Char '+++'

6)

Conversely, the serial command after mode switch must end with CR or LF.

7)

Users must use UDP or TCP client because the UDP or TCP server is operating to handle the device commands.

8)

Data is sent to the broadcast IP address 255.255.255.255, and data can be sent to all peers in the same network.

9)

FF:FF:FF:FF:FF:FF

10)

Hex value 0x20 means 'gap' in ASCII code.

11)

The response for 'Get Request' has the same form as 'Set Request'.

12)

IPv4 address forms like IP address, Gateway address, subnet mask, DNS server address, or Remote IP address.

13)

Save setting, reboot, switch mode, factory reset and Etc.

14)

WIZ107/108SR sync command list, excluding [UI] command

15)

WIZ750SR exclusive command list

16)

When the remote peer address is changed from IP address to domain

17)

The received serial data is collected until the designated time is lapsed and will be sent all together via Ethernet. This time starts counting when receiving the serial data stop, and if additional serial data is received before the designated time is lapsed, the count restarts.

18)

The received serial data is collected until the designated data length is reached and will be sent all together via Ethernet.

19)

The received serial data is collected until the designated character is received and will be sent all together via Ethernet.

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