

(I)GW11XX Modbus Gateway

CLI User Manual

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Real time

3onedata Co., Ltd.

Address: 3/B, Zone 1, Baiwangxin High Technology Industrial park, Nanshan District, Shenzhen, 518108 China

Tel: +86-755-26702668

E-mail: sales@3onedata.com

Fax: +86-755-26703485

Website: <http://www.3onedata.com>

Preface

The CLI user manual describes the Modbus Gateway device:

- CLI command configuration



Note

The screenshot reference model for this manual is GW1118-8D (3IN1) Modbus. Other types of products in addition to supporting the serial type (RS-232, RS-422, RS-485) and the number of serial ports are different, the functions and CLI commands are the same.

Audience


This manual applies to the following engineers:




- Network administrators
- Technical support engineers
- Hardware engineers

Conventions

Format	Description
“ ”	Words with the symbol “” mean that those are interface words. Fox example “Port number”.
>	Multiple paths are separated by the symbol ‘>’.
Light blue Font	Click light blue font to hyperlink The font color is as follows: ‘Light Blue’.
About This Chapter	The section ‘about this chapter’ provide links to various sections of this chapter, as well as links to the Principles Operations Section of this chapter.

Symbols

Format	Description
 Notice	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance deterioration, or unanticipated results.

Format	Description
	NOTICE is used to address practices not related to personal injury.
 Warning	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
 Note	<p>Calls attention to important information, best practices and tips.</p> <p>NOTE is used to address information not related to personal injury, equipment damage, and environment deterioration.</p>
 Key	The tips of configuration and operation.

Revision History

Version No.	Date	Revision note
01	July 24, 2017	Manual Development
02	August 16, 2017	Manual Maintenance
03	October 26, 2017	Add dual network ports function
04	December 27, 2017	Add IP mapping function

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1 Access to Modbus Gateway

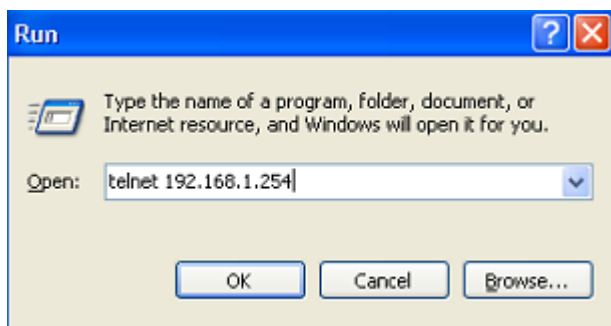
1.1 Configuration through Telnet

Terminal device use telnet connect to Modbus gateway through PC, the requirements are as follows:

- The IP address of Modbus gateway can get it by search or modify (Use IP command under the system management view).
- If PC and Modbus gateway device in the same local area network, the IP address must in a same network segment, otherwise, PC and Modbus gateway device must cross-router.

If satisfied these two requirements, can use telnet access to Modbus gateway device, and configure the Modbus gateway device.

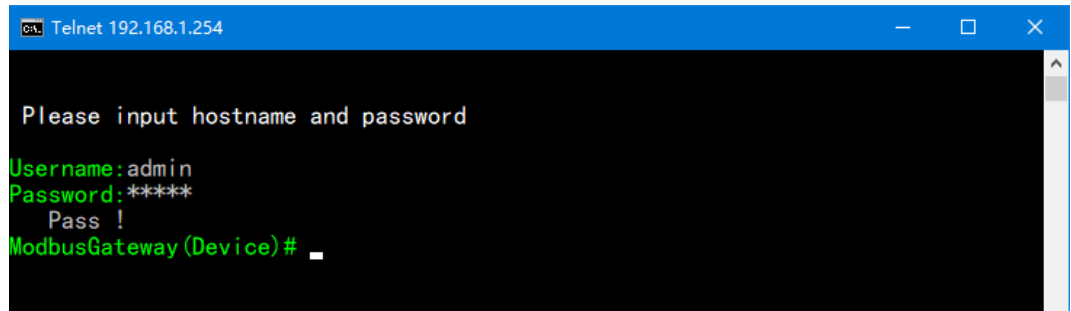
- After establish configuration environment, just connect PC's Ethernet port connect to Modbus gateway device's Ethernet port through Local area network.
- Before access Modbus gateway through Telnet, need to input "**Telnet+ Space+ Modbus gateway's IP address**" for checking, figure as follows:



Note:

- As for dual network ports device, the default IP of Lan1 is 192.168.1.254, the default IP of Lan2 is 192.168.8.254.
- As for single network port device, the default IP is 192.168.1.254.
- Hit "Enter", checkout successful and till PC show "Please input hostname and

password”, ask user to input user name and password, default is admin, figure as follows:



```

Telnet 192.168.1.254

Please input hostname and password

Username: admin
Password: ****
Pass !
ModbusGateway(Device)# _
  
```

Note:

The default user name and password are “admin”.

- Use command to configure Modbus gateway and check the running status, if need help, please input “?” at any time. Specific configuration command please reference “Modbus Gateway CLI user manual”.

1.2 Agreement

1. Command line format agreement table as follow:

Format	Description
<i>italic</i>	Parameter of the command show <i>italic type</i> .
[]	It shows part in “[]”is optical when command configuration is need.
{ x y ... }	It shows to pick up one from two or more items.
[x y ...]	It shows to pick up one or no one from two or more items.
{ x y ... }	It shows to pick up one at least, all at most from two or more items.
Bold	Key words of the command show by bold type.

2. Format agreement of figure interface table as follows:

Format	Description
< >	“< >” shows press name, like “click<OK>”
[]	“[]” shows windows name, menu name and data list. like “eject [create user>window”
/	Multilevel is separated by “/”. Like [file/create/folder] means[create] a [folder] under the menu of [file]

1.3 Command line port

Modbus gateway provides command lines port and its configuration for user's easy configuration and management. Command lines port includes the following features:

- Local configuration through LAN port;
- Supports history command saving which means it can save 10 pieces. History commands can be selected by up and down key.
- User can type in "help" or "?" to get some help;
- Supports intelligent complement with Tab when commands input;
- Command interpreter take the method of partial matching. User can type in conflict-free key words, such as config command, only need to type in conf.

1.3.1 View of Command Lines

Modbus gateway view of command lines aim at configuration of different functions. First of all, Modbus gateway establish connection, then finish the verification of user name and password, after enter the correct user name and password, enter "help or ?" in "Device#", enter into system view, Under the view of system, corresponding view appears after typing indifferent command, figure as follows:

```

Telnet 192.168.1.254

Please input hostname and password
Username: admin
Password: *****
Pass !
ModbusGateway (Device) # ?
List                --List commands name
Help                --List commands name and help info
Quit                --Quit from CLI
Exit                --Exit from current menu
Reboot              --Reboot device
Serial              <dir> --Enter serial setting menu
Security             <dir> --Enter security setting menu
Manage              <dir> --Enter system manage menu
Information          <dir> --Enter device information menu
Modbus              <dir> --Enter Modbus manage menu
ModbusGateway (Device) #
  
```

View	Function	DOS Prompt	Enter	Quit
------	----------	------------	-------	------

View	Function	DOS Prompt	Enter	Quit
System View		Device #	Help or ?	Quit and return to user login
Modbus	Show or modify Modbus information, such as setting the slave ID mapping configuration	ModbusGateway (Modbus)#	Modbus	Exit and return to the system view
serial	Show or modify serial information, like as baud rate, data bit, flow control	ModbusGateway (Serial)#	Serial	
Security	Show or modify the IP and MAC address filtering, user name and password settings	ModbusGateway (Security)#	Security	
manage	Show or modify IP address and subnet mask, Set Console Overtime and Reset to default configure	ModbusGateway (manage)#	Manage	
Information	Show or modify device type, name, device description, serial number, contact way, etc	ModbusGateway (information)#	Information	

1.3.2 Command lines online help

Command lines port provides the following online help:

- Total help
- Partial help

1. Total help

- Type in <?> to get all commands and their description.

Example:

```
ModbusGateway(Device) # ?
List                                --List commands name
Help                                --List commands name and help info
Quit                                --Quit from CLI
Exit                                --Exit from current menu
Reboot                              --Reboot device
Serial <dir>                        --Enter serial setting menu
Security <dir>                      --Enter security setting menu
Manage <dir>                        --Enter system manage menu
Information <dir>                   --Enter device information menu
Modbus <dir>                        --Enter Modbus manage menu
```

- Type in a command and "?", between there is a space, if key word is in this location, then type in all keywords and descriptions.

```
ModbusGateway(Device) # information
ModbusGateway(System) # show ?
mac                                --Device MAC address
version                            --Device version
others                             --Device name,type,etc
```

2. Partial help

- Type in a character string with <?>. List all commands beginning with this character string.

Example:

```
ModbusGateway(Device) # m?
Manage <dir>                        --Enter system manage menu
Modbus <dir>                        --Enter Modbus manage menu
```

- Type in former letters of some key word of the command, press<Tab> key. If the letters are unique, it can show the completed key word.

Example:

```
ModbusGateway(Device) # inf + <Tab>
ModbusGateway(Device) # information
```

1.3.3 Frequent Incorrect Information of Command Lines

All commands typed by users, if it is certificated by grammar, it can run correctly, or users will be sent incorrect information. Frequent incorrect information is in table as below:

English incorrect information	Reason
Invalid Command	Command cannot be found.

English incorrect information	Reason
	Key word cannot be found.
	The type of parameter is wrong.
	The parameter is beyond the border.
Incomplete Command	Command is not completed.
Too many parameters	Parameter is too much.
Must One To One option!	Based mode is necessary

1.3.4 History command

Command lines port can provides the function similar to Doskey. It automatic save command lines that users types in, and users can use these history commands.

Detailed operating please check table as follows:

Operating	Key	Result
Visit previous history command	Up <↑>	If exists earlier command, it is taken out.
Visit next history command	Down <↓>	If exists later command, it is taken out.

2 Modbus configuration

This series of product settings include slave ID mapping table configuration and related timeout settings.

2.1 Enter into the view of Modbus information



Note

The screenshot reference model for this manual is GW1118-8D (3IN1) Modbus. Other types of products in addition to supporting the serial type (RS-232, RS-422, RS-485) and the number of serial ports are different, the functions and CLI commands are the same.

Please check the view as figure.



Note

In the table description, the number of ports and the type of serial port that is supported are different depending on the device.

Operating	Command	Description
Enter into the view of Modbus information	Modbus	Run in the view of system
Add gateway TCP Slave entry	AddGateWayT <RemoteIP> <RemotePort> <VIDmin> <VIDmax> <Offset>	<RemoteIP> --Remote Ip such as 192.168.1.254 <RemotePort> --Config RemotePort:1-65535 <VIDmin> --Config VIDmin:0-247 <VIDmax> --Config VIDmax:0-247 <Offset> --Config Offset:(-253)-(253)

Operating	Command	Description
Delete gateway TCP Slave entry	DelGateWayT <Index>	<Index> --Config Index: 1-32
Set serial gateway entry	SetGateWayS <Index> <DeviceType> <VIDmin> <VIDmax> <Offset>	<Index> --Config Index: 1-8 <DeviceType> --serial DeviceType 1 --RTU Master 2 --RTU Slave 3 --ASCII Master 4 --ASCII Slave <VIDmin> --Config VIDmin:0-247 <VIDmax> --Config VIDmax:0-247 <Offset> --Config Offset:(-253)-(253)
Set TCP response time	SetTcpResponseTi me <ResponseTime>	<ResponseTime> --ResponseTime:10-120000ms
Set response timeout and interval timeout	SetSerialRespon seTime <Index> <ResponseTime> <Inter_character_ Timeout> <Inter_frame_ Delay>	<Index> --Config Index: serial:1-8 <ResponseTime> --ResponseTime:10-120000ms <Inter_character_Timeout> --Inter_character_Timeout:0ms,10-500ms <Inter_frame_Delay> --Inter_frame_Delay:0ms,10-500ms
Set Initial Delay	SetInitSetting <InitTime> <TcpExceptionEn>	<InitTime> --Config InitTime:0-30000ms <TcpExceptionEn> --TcpExceptionEn 0 --disable 1 --enable

Example: Enter into device information view, enter the bold type command as follows and enter return key.

ModbusGateway (Modbus) # ?

```

List                --List commands name
Help                --List commands name and help info
Quit                --Quit from CLI
Exit                --Exit from current menu
Reboot              --Reboot device
SetGateWayS         --Config GateWay
AddGateWayT         --Config GateWay
DelGateWayT         --Del GateWayTCP

```

```
Show GateWay                --Show Modbus GateWay information
SetTcpRespinseTime          --Config TCP response time
SetSerialResponseTime       --Config ResponseSetting
Show ResponseTime           --Show Response config information
SetInitSetting              --Config InitSetting
Show InitSetting            --Show Init config information
```

Example: Slave ID Map Table Channel NO.1, Channel type is RTU Slave. Virtual ID Start is 3, Virtual ID End is 3, and Slave ID Offset is 0. Real ID Start is 3, Real ID End is 3.

```
ModbusGateway (Modbus) # setGateWayS 1 2 2 2 0 2 2
[OK]
```

Example: Add TCP gateway entry, IP address is 192.168.1.11, port number is 200, slave virtual ID is minimum 3, maximum is 3, offset is 0, real ID is minimum 3, maximum 3;

```
Switch (Modbus) # addGateWayT 192.168.1.11 200 3 3 0 3 3
[OK]
```

Example: Remove the TCP gateway entry with ID mapping table channel 1;Switch (Modbus)# delGateWayT 1

```
[OK]
```

Example: Set the response time, the communication port is 1, the response timeout is 2000, the character interval timeout time is 20, the frame interval delay time is 20;

```
Switch (Modbus) # setResponseTime 1 2000 20 20
[OK]
```

Example: Set the delay start time, set the initial delay of 2000, start the Modbus TCP exception

```
Switch (Modbus) # setInitSetting 2000 1
[OK]
```

2.2 Show Modbus Gateway information

Please check the device information command as table.

Operating	Command	Description
Show Modbus GateWay information	show GateWay	Carry out under the

Operating	Command	Description
Show Response config information	Show ResponseTime	view of MODBUS information
Show Initial Delay information	Show InitSetting	

Example: show Modbus gateway information

```
ModbusGateway(Modbus)# show gateWay
VirtualSerialEn : Disable
```

```

Index          Mode      VIDMin  VIDMax  Offset  RIDMin  RIDMax
PORT1          RTU    Master   0       0       0       0       0
```

Example: show Response Timeout and Interval Timeout information

```
ModbusGateway(Modbus)# show ResponseTime
name Index ResponseTimeout InterCharacterTimeout
InterFrameDelay
```

Example: Show Initial Delay information

```
ModbusGateway(Modbus)# show InitSetting
Init Time :          0 ms
TcpExceptionEn : Enable
```


3 Serial Setting

3.1 Enter into the view of serial information



Note

The screenshot reference model for this manual is GW1118-8D (3IN1) Modbus. Other types of products in addition to supporting the serial type (RS-232, RS-422, RS-485) and the number of serial ports are different, the functions and CLI commands are the same.

Please refer to table to set up the view serial command.



Note

In the table description, the number of ports and the type of serial port that is supported are different depending on the device.

Operating	Command	Description
Enter into the view of serial information	Serial	Run in the view of system
Set Serial alias	Com alias <port> <alias>	<port> --1-8 < alias > --alias:1-30 chars

Operating	Command	Description
Set serial baud rate	Com baudrate <port> < baudrate >	<p><port> --1-8</p> <p><baudrate> --serial Baudrate</p> <p>Tip:</p> <p>{300,600,1200,2400,4800,9600,19200,38400,57600,115200,}</p> <p>Note:</p> <p>Some DIN-rail devices support baud rates 230400, 460800 and 921600.</p>
Set serial data bits, stop bits and parity bits	Com linctrl <port> <parity> <databits> <stopbits>	<p><port>: --1-8</p> <p><parity> --Parity</p> <p> 0 --None</p> <p> 1 --Odd</p> <p> 2 --Even</p> <p> 3 --Mark</p> <p> 4 --Space</p> <p><databits> --Databits</p> <p> 2 --7bits</p> <p> 3 --8bits</p> <p><stopbits> --Stopbits</p> <p> 0 --1bit</p> <p> 1 --2bits</p>
Set serial mode	Com mode <port> <mode>	<p><port>: --1-8</p> <p><mode> --com mode</p> <p> 0 --RS232</p> <p> 1 --RS485/RS422</p>
Set flow control	Com flow_ctrl <port> <flow_ctrl>	<p><port> --1-8;</p> <p><flow_ctrl> --flow ctrl</p> <p> 0 --None</p> <p> 1 --RTS/CTS</p> <p> 2 --Xon/Xoff</p> <p> 3 --DTR/DSR</p>
Set serial RTS	Com rts <port> <rts>	<p><port>: --1-8;</p> <p><rts> --rts ctrl</p> <p> 0 --Auto</p> <p> 1 --On</p> <p> 2 --Off</p>

Operating	Command	Description
Set serial DTR	Com dtr <port> <dtr>	<port>: --1-8;
		<dtr> --dtr ctrl
		0 --Auto
		1 --On
		2 --Off

Example: Enter into serial information view, enter the bold type command as follows and enter return key.

```
ModbusGateway(Serial)# ?
List                --List commands of current menu
Help                --Help commands of current menu
Quit                --Quit from CLI
Exit                --Exit from current menu
Reboot              --Reboot switch
Show config         --Show COM config information
Show com_state      --Show com state info
Com alias           --COM set
Com buadrate        --COM set
Com lincrtl         --COM set
Com mode            --COM set
Com flow_ctrl       --COM set
Com rts             --COM set
Com dtr             --COM set
```

Example: Set the serial COM1 Parameters, the parity bit is ODD, the data bits are 8, and the stop bit is 2.

```
ModbusGateway(Serial)# Com Lincrtl 1 1 3 1
[OK]
```

Example: Set the serial COM1 Parameters, the alias is 111.

```
ModbusGateway(Serial)# com alias 1 111
[OK]
```

Example: Set the serial COM1 Parameters, the baud rate is 300.

```
ModbusGateway(Serial)# com buadrate 1 300
[OK]
```

Example: Set the serial COM1 Parameters, the flow control is RTS/CTS.

```
ModbusGateway(Serial)# com flow_ctrl 1 1
[OK]
```

Example: Set the serial COM1 Parameters, the RTS is disable.

```
ModbusGateway(Serial)# com rts 1 2
[OK]
```

Example: Set the serial COM1 Parameters, the DTR is disable.

```
ModbusGateway(Serial)# com dtr 1 2
[OK]
```

3.2 Display serial information

Please check the serial information command as table



In the table description, the number of ports and the type of serial port that is supported are different depending on the device.

Operating	Command	Description
Show the serial information	Show config <port_list>	<port_list>:1~8
Show the serial state	Show com_state <port_list>	<port_list>:1~8

Example: Enter into device information view, enter the bold type command as follows and enter return key

```
ModbusGateway(Serial)# show config 1
COM<1>
Alias:
COM work mode:      RS232
Baudrate:           115200 (bps)
Data bit:            8 (bits)
Parity bit:          NONE
Stop bit:            1 (bits)
Flow ctrl:           None
FIFO ctrl:           Enable
Rts ctrl:            AUTO
Dtr ctrl:            AUTO
```

4 Device Security Management

4.1 Enter into the view of Security Management

Please check the device information command as table

Operating	Command	Description
Enter into the view of device information	Security	Run in the view of system
Set user management	UserManage Add <username> <password> <affirm> <user_level>	<username> --user name:No more than 20 characters <password> --password:No more than 20 characters <affirm> --affirm password <user_level> --user level: --0 guest --1 administrator
Modify user management	UserManage modify <name_index> <username> <password> <affirm> <user_level>	<name_index> --name index:user name index <username> --user name <user_level> --user level: 0 guest 1 administrator
Delete user management	UserManage delete <user_index>	<user_index> --user name:No more than 20 characters

Operating	Command	Description
IP filter set	IpFilter def <def_permission>	<def_permission> --0:forbidden 1:allow
IP address filter enable setup	IpFilter set <filter_en>	<filter_en> --0:disable 1:enable
Modify IP address filtering entries	IpFilter modify <list> <state> <permission> <ip> <netmask>	<list> 1-16 <state> --0:disable 1:enable <permission> --0:forbidden 1:allow <ip> --ip address <netmask> --netmask
Submit IPFilter config	Submit IPFilter_config <submit>	<submit> --1:submit
MAC address filter enable setup	MacFilter enable <filter_en>	<filter_en> --0:disable 1:enable
MAC filter set	MacFilter def <def_permission>	<def_permission> --0:forbidden 1:allow
Modify NAC address filtering entries	MacFilter def<list_id> <state> <access_permission> <MAC_addr>	<list_id> 1-16 <state> --0:disable 1:enable <access_permission> --0:forbidden 1:allow <MAC_addr> --MAC address:xx.xx.xx.xx.xx.xx
Submit MacFilter config	Submit MacFilter_config <submit>	<submit> --1:submit
Set device security funtion	Device modify <web_console> <telnet_console> <serach> <upgrade>	<web_console> 0:disable 1:enable <telnet_console> 0:disable 1:enable <serach> 0:disable 1:enable <upgrade> 0:disable 1:enable

Example: Enter into device information view, enter the bold type command as follows and enter return key.

ModbusGateway(Security) # ?

List	--List commands name
Help	--List commands name and help info
Quit	--Quit from CLI
Exit	--Exit from current menu
Reboot	--Reboot device
UserManage show	--Show user infomation
Auth	--Set authentication
UserManage add	--Add a user
UserManage modify	--Modify a user
UserManage delete	--Delete a user
IpFilter show	--Show ip filter
IpFilter set	--Set ip filter control
IpFilter def	--Set ip filter default perimission
IpFilter modify	--Modify ip filter list
Submit IPFilter_config	--Submit IPFilter config
MacFilter show	--Show mac filter
MacFilter set	--Set mac filter control
MacFilter def	--Set mac filter default perimission
MacFilter modify	--Modify mac filter list
Submit MacFilter_config	--Submit MacFilter config
Device show	--Show device security
Device modify	--Modify device security

Example: Set the user name and password are admin123.

```
ModbusGateway(Security) # userManage add admin123 admin123
admin123 1
[OK]
```

Example: set the user management 2 of the user name and password are set to admin111, for the administrator.

```
ModbusGateway(Security) # userManage modify 2 admin111 admin111
admin111 1
[OK]
```

Example: User management entries delete.

```
ModbusGateway(Security)# userManage delete 2
[OK]
```

Example: set the IP filter rule to prohibit access

```
ModbusGateway(Security)# ipFilter def 0
[OK]
```

Example: modify the status of IP filtering rule entries 1 to allow, access permission for the permission to access, allowing access to the address 192.168.2.188, subnet mask is set to 255.255.255.0

```
ModbusGateway(Security)## ipFilter modify 1 1 1 192.168.2.188
255.255.255.0
[OK]
```

Example: modify the status of MAC filtering rule entry 1 to allow, access permission to allow access, allowing the MAC address for 00.00.00.00.00.01

```
ModbusGateway(Security)# macFilter modify 1 1 1 00.00.00.00.00.01
[OK]
```

4.2 Display Security Management

Please check the security information command as table

Operating	Command	Description
Display user management information	UserManage show	
Display IP filtering information	IpFilter show <list_id>	<list_id> --1-16 or all
Display MAC filtering information	MacFilter show <list_id>	<list_id> --1-16 or all
Display device security settings information	Device show	

Example: Display serial COM1 basic parameters set information

```
ModbusGateway(Security)# userManage show
user_index:1          user_name:admin
user_level:administrator
user_index:2          user_name:admin123  user_level:guest
user_index:3          user_name:admin1    user_level:guest
```


Example: display IP address filtering item 1 information

```
ModbusGateway(Security)# ipfilter show_details 1
list_id:1
    state:                enable
    access permission:    allow
    ip address:           192.168.2.188
    subnet mask:          255.255.255.0
```

Example: display MAC address filtering item 1 information

```
ModbusGateway(Security)# macFilter show_details 1
list_id:1
    state:                enable
    access permission:    allow
    mac address:          00.00.00.00.00.00
```

Example: display device security settings information

```
ModbusGateway(Security)# device show
web:      Enable
telnet:   Enable
search:   Enable
upgrade:  Enable
```

5 System Management

5.1 Enter into the view of System Management

Please check the device information command as table

Operating	Command	Description
Enter into the view of device information	Manage	Run in the view of system
Set ip mode	Ip_mode <ip_mode>	<ip_mode> --'0'express staic,'1'express auto
Set gateway	Dual network ports: Gateway <gateway><eth_port> Single network port: Gateway <gateway>	<gateway><eth_port> <eth_port> ethport 0 --eth1 1 --eth2 --gateway address such as 192.168.1.1 1 Notice: The command for dual network ports device and sigle network port device are different.
Set IP address and subnet mask	Ip <ip_address> <mask>	<ip_address> --ip address such as 192.168.1.254 <mask> --subnet mask such as 255.255.255.0

Operating	Command	Description
set dns mode	Dns_mode <dns_mode>	<dns_mode> --'0'express staic,'1'express auto
Set dns address	Dns <dns_address>	<dns_address> --dns address such as 202.94.134.133
Set default port	Def_eth <eth_port >	<eth_port > 0 eth1 1 eth2 Note: Only dual-Ethernet devices support this function.
Display IP mapping table entries	Show ip_map	Display IP mapping table entries Note: Only dual-Ethernet devices support this function.
Delete map entry	Del ip_map<item_id >	<item_id >: the number of entries Note: Only dual-Ethernet devices support this function.
Add a mapping table entry	Add ip_map<dest_ip><netmas k> <eth_port >	<dest_ip> Destination address <netmask > subnet mask <eth_port > default port Note: Only dual-Ethernet devices support this function.
Set reportdestaddr parameters	Set_reportdestaddr <reportdestip> <reportdestport> <reportperiod>	<reportdestip> --reportdestipaddress <reportdestport> --reportdestport form 1 to 65535 <reportperiod> --reportperiod form 1 to 65535
Set overtime	Set console_timeout <time_out>	<time_out> --Range [0-60] minutes 0 --Close timeout function

Operating	Command	Description
Reset to default config	Restore	

Example: Enter into device information view, enter the bold type command as follows and enter return key

```
ModbusGateway (Device) # manage
```

```
ModbusGateway (Manage) # ?
```

```
List                --List commands name
Help                --List commands name and help info
Quit                --Quit from CLI
Exit                --Exit from current menu
Reboot              --Reboot device
Ip_mode              --Set ip mode
Gateway              --Set gateway
Ip                  --Set ip address and subnet mask
Dns_mode             --set dns mode
Dns                  --Set dns address
Show net_config      --Show net config
Show reportdestaddr  --Show reportdestaddress
Set_reportdestaddr   --set reportdestaddr parameters
Set console_timeout  --Set console timeout
Restore              --Reset to default config
```

Example: set the device gateway to 192.168.2.1

```
ModbusGateway (Manage) # gateway 192.168.2.1 0
```

```
[OK]
```

```
The device is rebooting. Please waiting.....
```

```
bl_ver:
```

```
V1.0.0_20170116R
```

Example: set the timeout period to 60min

```
ModbusGateway (Manage) # set 60
```

```
[OK]
```

5.2 Display System Management

Please check the device information command as table

Operating	Command	Description
-----------	---------	-------------

Operating	Command	Description
Display IP mapping information	Show ip_map	Carry out under the view of system management
Display the network configuration information	Show net_config	Carry out under the view of system management
Display report dest address information	show reportdestaddr	Carry out under the view of system management

Example: display IP mapping information

```
ModbusGateway(Manage)# show ip_map
```

```
IP_MAP
```

NO	DestIP	NetMask	Eth
1	192.168.1.36	255.255.255.0	1

Example: display device address information

```
ModbusGateway (Manage) # show net_address
```

```
Device IP address : 192.168.1.254
```

```
Device mask address : 255.255.255.0
```

```
Device gateway : 192.168.1.1
```

6 Device Information

6.1 Enter into the view of device information

Please check the device information command as table

Operating	Command	Description
Enter into the view of device information	Information	Run in the view of system
Device type setting	DeviceType <string>	<string> --parameters
Device Name setting	DeviceName <string>	<string> --parameters
Device description setting	DeviceDescrip <string>	<string> --parameters
Device number setting	SerialNumber <string>	<string> --parameters
Connection way setting	ContactWay <string>	<string> --parameters

Example: Enter into device information view, enter the bold type command as follows and enter return key.

```
ModbusGateway(Device) # information
```

```
ModbusGateway(System) # ?
```

```
List                --List commands name
Help                --List commands name and help info
Quit                --Quit from CLI
Exit                --Exit from current menu
Reboot              --Reboot device
Show mac            --Show device MAC address
Show version        --Show device version
Show others         --Show device name,type,etc
DeviceType          --Config device type
DeviceName          --Config device name
DeviceDescrip       --Config device description
```

```
SerialNumber          --Config serial number
ContactWay            --Config contact way
```

Example: set the device type is 123456.

```
ModbusGateway(System) # deviceType 123456
[OK]
```

Example: setting the device name is 2222222.

```
ModbusGateway(System) # deviceName 2222222
[OK]
```

Example: setting the device description is 333333.

```
ModbusGateway(System) # deviceDescrip 333333
[OK]
```

Example: setting the device number is 4444444.

```
ModbusGateway(System) # serialNumber 4444444
[OK]
```

Example: setting the contact information for 555555555.

```
ModbusGateway(System) # contactWay 555555555
[OK]
```

6.2 Display device information

Please check the device information command as table 6.2.1



Note

In the table description, the number of ports and the type of serial port that is supported are different depending on the device.

Operating	Command	Description
Show system version	show version	Carry out under the view of device information
Show MAC address of device	show mac	
Show Device Type, Name, etc.	show others	

Example: view the software and hardware version of the device, etc.

```
ModbusGateway(System) # show version
SoftWare Version : 1.0.0 Build 20170626401R
```

```
HardWare Version : 2.0.0
Release Date    : 10:24:24 , Jul  6 2017
```

Example: check the device model, name, etc.

```
ModbusGateway(System)# show others
Device type      8COM
Device name      ModbusGateway
Description      2LAN
Serial number    201706080001
Contact way
```

Example: Check the MAC address

```
ModbusGateway(System)# show mac
Device MAC address : 00.22.6F.EE.00.01
```




3onedata Co., Ltd.

Address: 3/B, Zone 1, Baiwangxin High Technology Industrial park, Nanshan District, Shenzhen, 518108 China

Tel: +86-755-26702668

E-mail: sales@3onedata.com

Fax: +86-755-26703485

Website: <http://www.3onedata.com>