Device Manager’s Manul

NePort/NeBoard/NeChip

Version 2.2

Declaration

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Contents

1 Foreword 6
2 Conventions 8
2.1 Symbols 8
3 Getting Started Wizard 9
3.1 Device Manager2.2 New Features 9
3.2 Installation Device Manager2.2 9
3.2.1 Hardware environment 9
3.2.2 Software environment 9
3.2.3 Installation instructions 9
3.3 Interface Window 10
3.3.1 Menu Bar 10
3.3.2 Shortcut Bars 11
3.3.3 Device List 11
4 Basic Settings 12
4.1 Overview 12
4.2 Functional specifications 12
Device Name 12
Time Zone 12
Local Time 12
Time Server 12
Terminal Name 12
AT Enter Type 13
Cmd TCP debug 13
5 NetWork Settings 14
5.1 Overview 14
5.2 Functional specifications 14
IP configuration options 14
Mac Address 14
Auto Negotiate 14
6 Server Configuration 15
6.1 Overview 15
6.2 Functional specifications 15
Cloud management 15
Remote configuration debugging 15
System Update 16
7 Channel Settings 17
7.1 Overview 17
7.2 Functional specifications 17
Channel Remark 17
Send Device Name/IP/Channel ID/MAC 17
Channel ID 17
Security ID 17

Security Timeout 17
Data Trace 18
CTS Drop TCP 18
8 HostList 19
8.1 overview 19
8.2 Functional specifications 19
TCP Hostlist Settings 19
9 Serial Settings 21
9.1 Overview 21
9.2 Functional specifications 21
Serial Port 21
Protocol 21
FIFO 21
Flow Control 21
Baud Rate 22
Data Bits 22
Parity 22
Stop Bits 22
Uart Idle Time 22
Max Length 22
Net Idle Time 22
Merge length 22
Link Latch 22
Uart Out IFG 22
Match Packing 22
SendFrameOnly 22
Match 2 Byte Sequence 22
10 Connection Settings 23
10.1 Overview 23
10.2 TCP connection Settings 23
Net Protocol 23
Worked As 23
Active Connect 24
Remote Host 24
Start Character 24
Remote Port 24
DNS Query Period 24
Local Port 24
Inactivity Timeout 24
Keep Alive 25
Hostlist 25
Connect Response 25
ON DSR Drop 25
Check EOT 25
Hard Disconnect 25

Flush Input Buffer....25
Flush Output Buffer....26
10.3 UDP Connection Settings....26
NetProtocol....26
Datagram Type....27
Accept Incoming....27
Use Guest Host....27
Multi Local Port....27
Multi Remote port....27
Multicast address....27
Unicast Hostlist....27
Unicast Local Port....27
11 Password Settings....29
12 Apply Settings/Restart....30
Load defaults....30
Load defaults and reboot....30
Reboot....30
Save and reboot....30
13 DeviceManager2.2 practice examples....31
13.1 How to quickly set all module parameters....31
[Simple operation guide]....31
13.2 How to restore all device to OEM factory configuration at one time....33
[Simple operation guide]....33
13.3 How to batch assign IP addresses to device modules....34
[Simple operation guide]....34
Contact us....36

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1 Foreword

Cpmpared with all previous versions, DeviceManager2.2 extends and adds many new feautures. Users can use the device management tool to search all devices, and can configure fixed IP or specify DHCP to automatically obtain IP in batch. Users do not need to allocate IP addresses for each module separately. In practical application, if all the device needs to be the same configuration parameters, the user need only one configured in advance device, and synchronous replication to other same model with the version of the device, make the other devices with the selected configuration is exactly the same.

In addition, the new features are reflected in management maintenance, checking the version parameters of the management device, and troubleshooting. OEM manufactures can use search equipment to check OEM factory configuration and check parameters to verify that all OEM configurations are correct and consistent.

These new functions are suitable for device manufacturers production line test, project engineering installation and deployment. Debugging management equipment for users, save time, reduce repetitive and tedious work, and facilitate users to quickly copy projects.

2 Conventions

The following information describes the conventions used in the documentation.

2.1 Symbols

Convention	Description
●	Content with a solid circle describes a list of functional items
■	The content with a square solid circle describes the menu options or subject classification options
（）	Small square brackets describe comments or information additions
[ ]	Square brackets describe the subject or title emphasis
/	The backslash describes the content options
Note:	An alert that contains additional or important information

3 Getting Started Wizard

3.1 Device Manager2.2 New Features

Device Manager2.2 adds the following main functions, which are described as follows:
IP allocation：Broadcast search devices, according to the pre-set initial IP and subnet mask, quickly assign IP addresses to all devices that have been searched, or use DHCP, all devices automatically get IP addresses.

Default_ all:　All device resumed factory setting(Search the list of successful devices)
Maintain(all): Check and maintain the user's version parameters, configuration, and so on.
All Device: Copy the configuration of the current page to all device（The model version must be the same）

3.2 Installation Device Manager2.2

3.2.1 Hardware environment

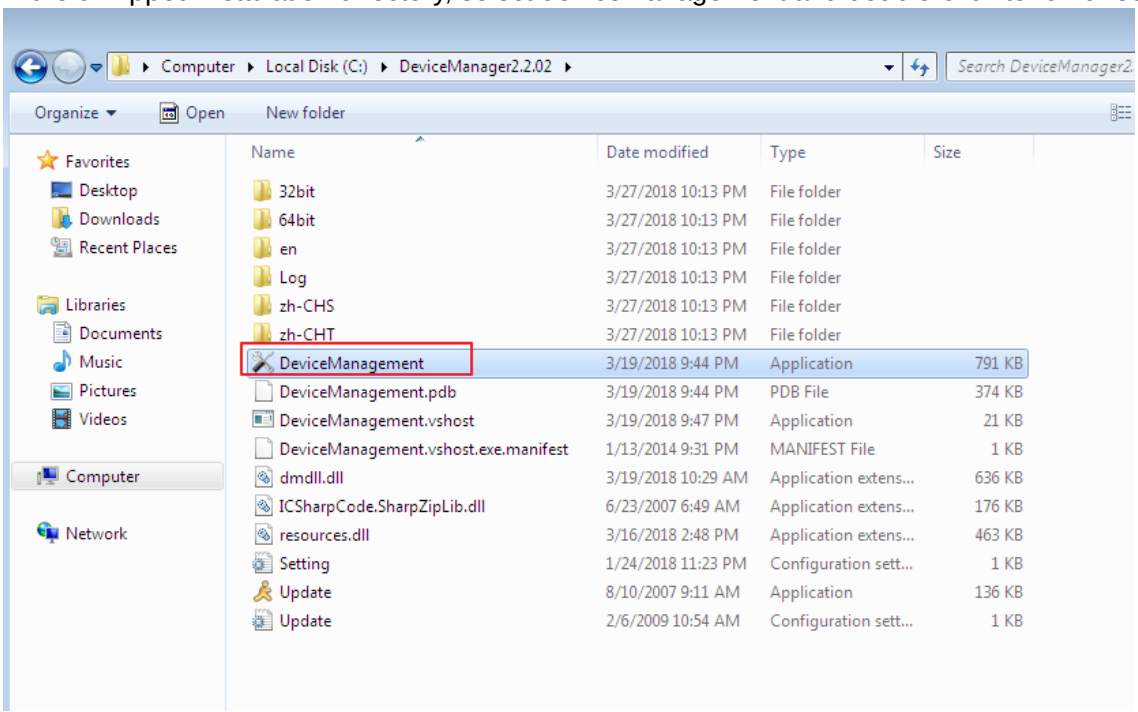
Minimum configuration: 512memory and Dual-core CPU

3.2.2 Software environment

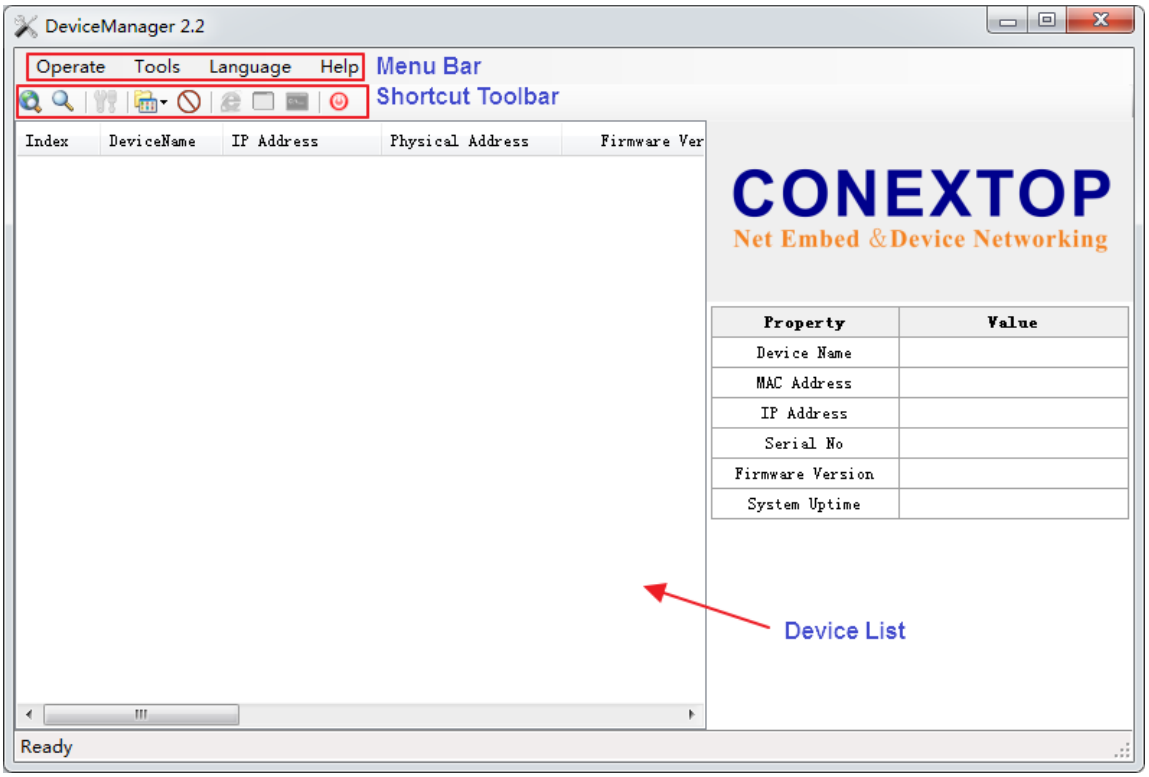
Windows X86*32&64bit. Windows XP/Windows 7/Windows 10 Microsoft .Net Framework 2.0

3.2.3 Installation instructions

In the unzipped installation directory, select devicemanagement and double-click to run directly.



3.3 Interface Window



3.3.1 Menu Bar

Operate

Sub Menu	Description
Search	Search all modules of the network
Specify Search	Spectify an IP address or segment search device.
Config	Configuring parameters.
Clear	Clear list display
Exit	Exit DeviceManager2.2

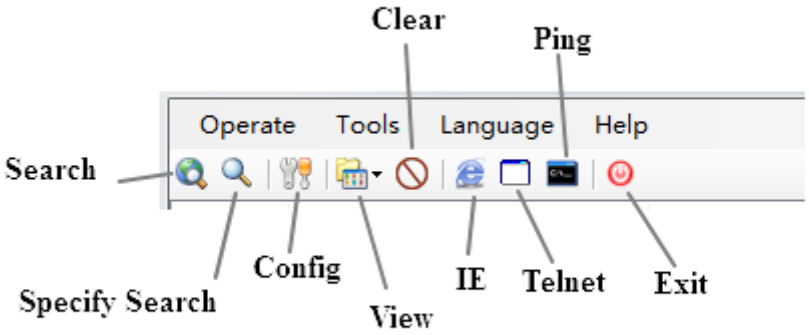
Tools

Sub Menu	Description
IE	Switch to Internet explorer to log in
Telnet	Switch to Telnet login
Ping	Ping Tool
Shortcut Key	Set shortcuts
Default_all	Load Defaults

Language

English(E)	Device Manager2.2 English version
简体中文（C）	Device Manager2.2 Chinese version
中文繁体(H)	Device Manager2.2 traditional Chinese version

3.3.2 Shortcut Bars



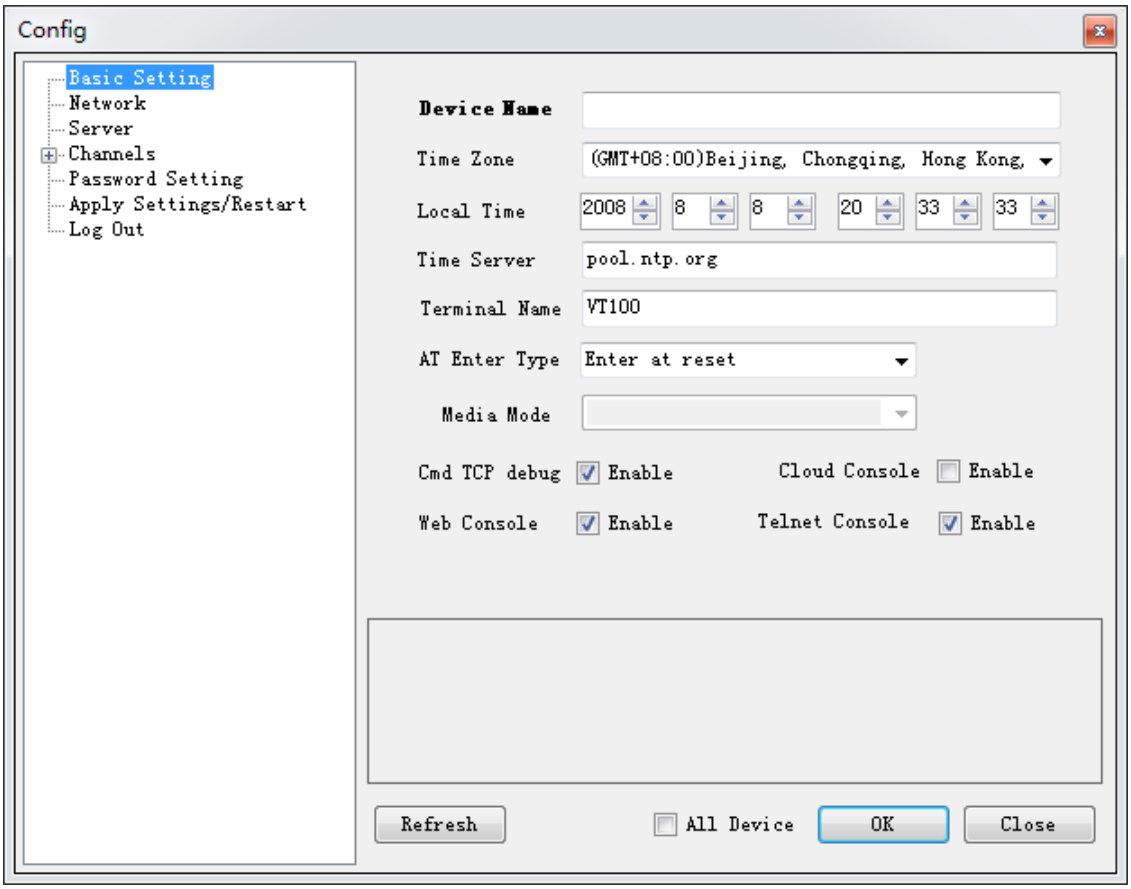
3.3.3 Device List

Field Name	Description
Index	Device index number
DeviceName	Device identification alias
IP Address	The network address
Physical Address	Device Mac address
Firmware Version	Model revision
Parameter Fingerprint	Current configuration parameter identification code
System parameter update	Run clock time
OEM Parameter(Default) Fingerprint	Factory configuration identification code
Product SN	System version parameters

4 Basic Settings

4.1 Overview

This chapter mainly describes the basic configuration parameter configuration of the device module, including device name, TimeZone and time clock setting, web, telnet access and AT Command remote debugging.



4.2 Functional specifications

Device Name
Search for network devices can identify device, or as a part of the identity information sent to the reomote host. The maximum length of 30 bytes.

Time Zone
Set time Zone

Local Time
Set the local time, in the left corner of the window click the “Refresh” button again reads and displays the local time.

Time Server
For Device synchronization time sntp server IP address, or domain name, the maximum length of 30 bytes, Can be read via serial port synchronized clocks, If the device does not support DNS, you can use the IP address. Example: time .nist.gov; time.window.com: time-nw.nist.gov;132.163.4.101; 23.101.187.68; 131.107.13.100.

Terminal Name

Set Terminal Name

AT Enter Type
Whether to enable serial port to enter AT command mode

The following options are available for users to choose according to actual needs.

Options	Description
Close access	Close access to AT command from the serial port.
Enter at reset	Reset or Powered on, after about 500ms send “+++” to UART, and then wait 1 second to receive the “enter AT!command mode !OK”, indicating successful entry AT Command. If can’t match in 1 second or receive other data will be directly into the normal working mode.
Enter at CTS _pin	The serial port uses the CTS pin to enter AT command mode, high level to enter and low level to exit.

Cmd TCP debug
When enabled, allows remote operation to establish a TCP connection AT command, when using the serial port to send AT commands will be copied to the TCP; Also has the function of automatically sending the connection is established the current device IP, MAC and Name information, with to the remote identification;

User can quickly build a private cloud management platform, remote debugging AT commands.

Web Console
When the web server is enabled, users are allowed to log into the web server to complete the configuration.
Note: IP address needs with devices in the same subnet.

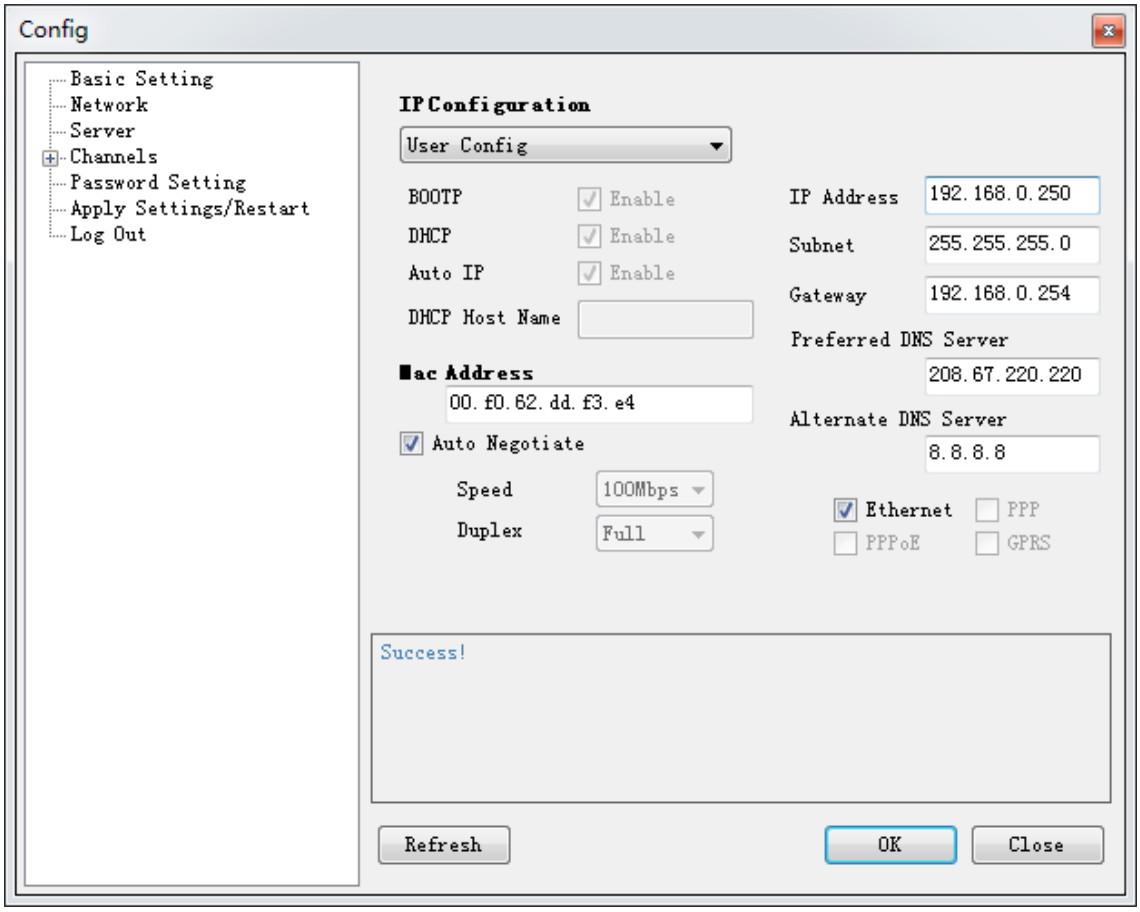
The following options are available for users to choose according to actual needs.

Values	Description
Enable	Web console is enable
Disable	Web console is disable

5 NetWork Settings

5.1 Overview

This chapter mainly describes IP address , MAC address and network type setting of device module.



5.2 Functional specifications

IP configuration options

Option	Description
User Config	Manually configure IP address, subnet mask, gateway, DNS server.
Obtain Automatically	Get IP address automatically (this function requires the DHCP server to work properly).

Mac Address

Set the local network card physical address. It is unique and can identify the network identity of the device.

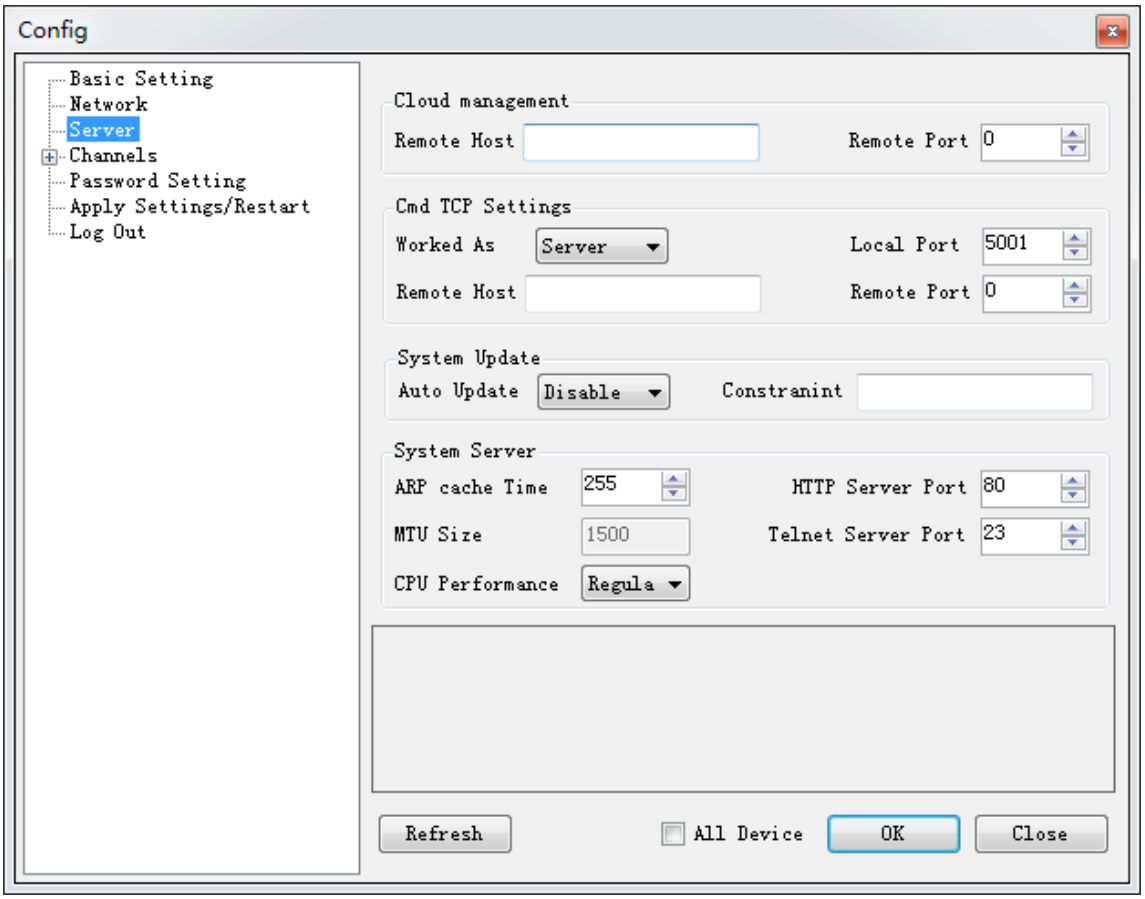
Auto Negotiate

Device and network automatically negotiate network speed, and dual-mode.

6 Server Configuration

6.1 Overview

This section mainly describes the service configuration options provided by the module.



6.2 Functional specifications

Cloud management
Set the remote host address and remote port so that the device can be added to cloud management.

The following options are available for users to choose according to actual needs.

Name	Description
Remote Host	Remote cloud management host IP address or domain name, maximum length of 30 bytes.
Remote Port	Sets the remote host port used to communicate with the module.

Remote configuration debugging
Cmd TCP makes it easy and convenient to realize remote debugging of serial port module.

- Worked As

Setting TCP mode AT command based support Client, Server, Both Only allow the establishment of a number of connections. Client mode is suitable for users to quickly set up private, simple cloud.

- Local Port

Setting of the local port used for communication, when work in client mode this value allows set to 0, and said the use of random ports to connect with peer(recommended); When working on the server

or both modes are not allowed to set this value to 0,otherwise, it will cause server shut down the channel function, and check cannot conflict with other function, otherwise it will cause doesn't work properly.

- Remote Host

Fill in for TCP communication remote host IP address or domain name, the maximum length of 30 bytes, only the Client mode need this information, Server mode does not need it, please fill in such as (0.0.0.0) or blank, otherwise, the part of the version will be used as filtering information.

- Remote Port

Set remote port

System Update

- Auto Update

Automatic update enable option to find the available files, if the file can be scheduled through the constraint, the system will automatically complete the update

- Constraint

Enter a constraint set file name, use the constraint set file to check if this upgrade file is applicable to the current project system.

System Server

- ARP cache Time

Set ARP cache timeout.

- MTU Size

TCP/IP protocol data packet maximum transmission unit.

- HTTP Server Port

Set HTTP server port, default port 80

- Telnet Server Port

Telnet Server Port, default port 23

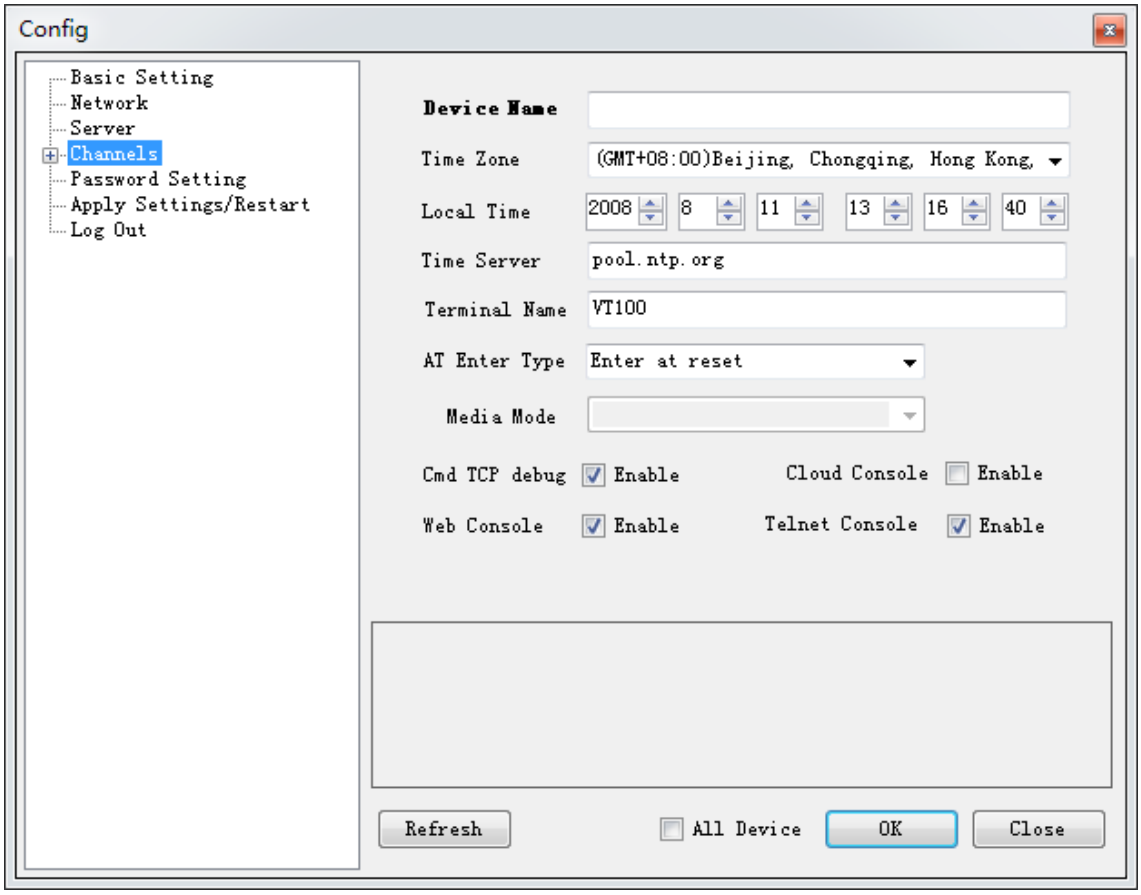
- CPU Performance

Set CPU performance mode, value is high or Regula.

7 Channel Settings

7.1 Overview

This chapter mainly describes the naming definition of module channel, device identification feature sending, key configuration, verification of TCP connection, data tracking enabling setting, etc.



7.2 Functional specifications

Channel Remark
Set the channel alias (10 bytes), multi-channel identification for device, and when sending device name, alias is attached to the device_name end were sent together.

Send Device Name/IP/Channel ID/MAC
Only when the TCP connection is established successfully, the device name, IP address, channel ID and MAC immediately sent to the peer with channel alias. Mainly used for positioning, identity, or used to register related services, etc.

Channel ID
Channel ID value window, users can customize up to 128 bytes of ASCII or HEX information.

Security ID
Security ID value window, users can customize up to 128bytes of ASCII or HEX information. Some early version does not support and my cause equipment don't work properly, the user needs to perform DefaultFun after back to normal after reconfiguration of other parameters.

Security Timeout

Start timing if key ID value window contains the value and the TCP connection is established, and disconnect the connection has been established after the timeout if didn't receive the key ID value the same data.

Data Trace
After activation, when new connections are established after the first to receive specific character segments(command) will be from data / event tracking channel to obtain data, such as:

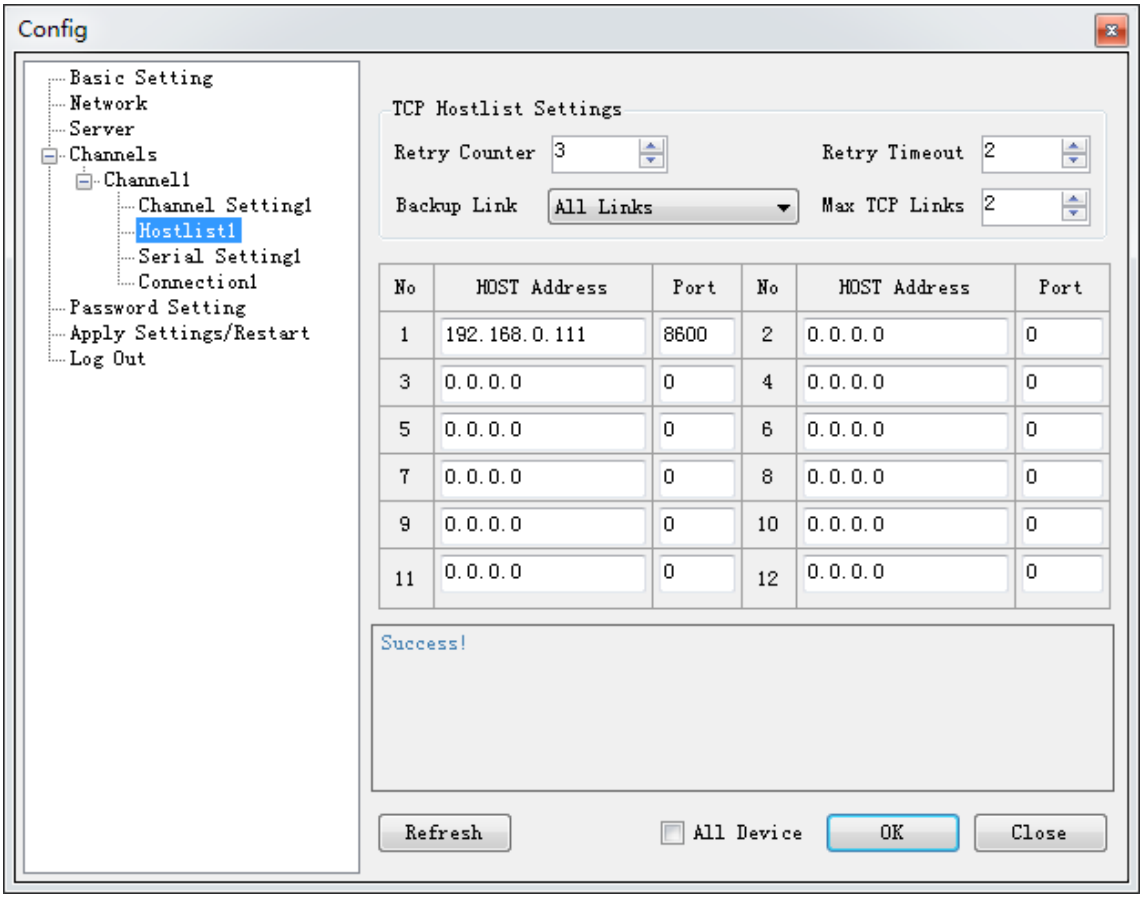
#define data trace-1; it can actively to the remote terminal output current channel all data /event of all or part of the information for development engineers, network Maintenance Engineer in remote data analysis and diagnosis.

CTS Drop TCP
After enabling, CTS pin(TTL) input high level disconnect all TCP connections, low level allows connection is established.
Note: Some versions do not support this feature.

8 HostList

8.1 overview

This chapter mainly describes the configuration of redundant hosts list, remote host, remote port setting, backup host use mode, host reconnection times, number of concurrent connections and other Settings in TCP operating mode.



8.2 Functional specifications

TCP Hostlist Settings

- **Retry Counter**

Set up a backup redundant host list (Hostlist) retry number exceeded the number of retries to jump to the next continues to try to connect until the connection is established successfully. Only valid when the client mode.

Note: the host number priority more low.

- **Retry Timeout**

Set up a backup redundant host list (Hostlist) retry timeout value (in seconds) after a timeout to end the current connection, and enter the next retry state.

- **Backup Link**

Set the method for using TCP backup redundant connection. The option “All Links”: Data is forwarded to the last active connection: The option “Active And MaxHost”:Data is forwarded to the active connection and Maximum host: option” All Data To Maxhost”: Forwards network and serial data to Maximum host:s

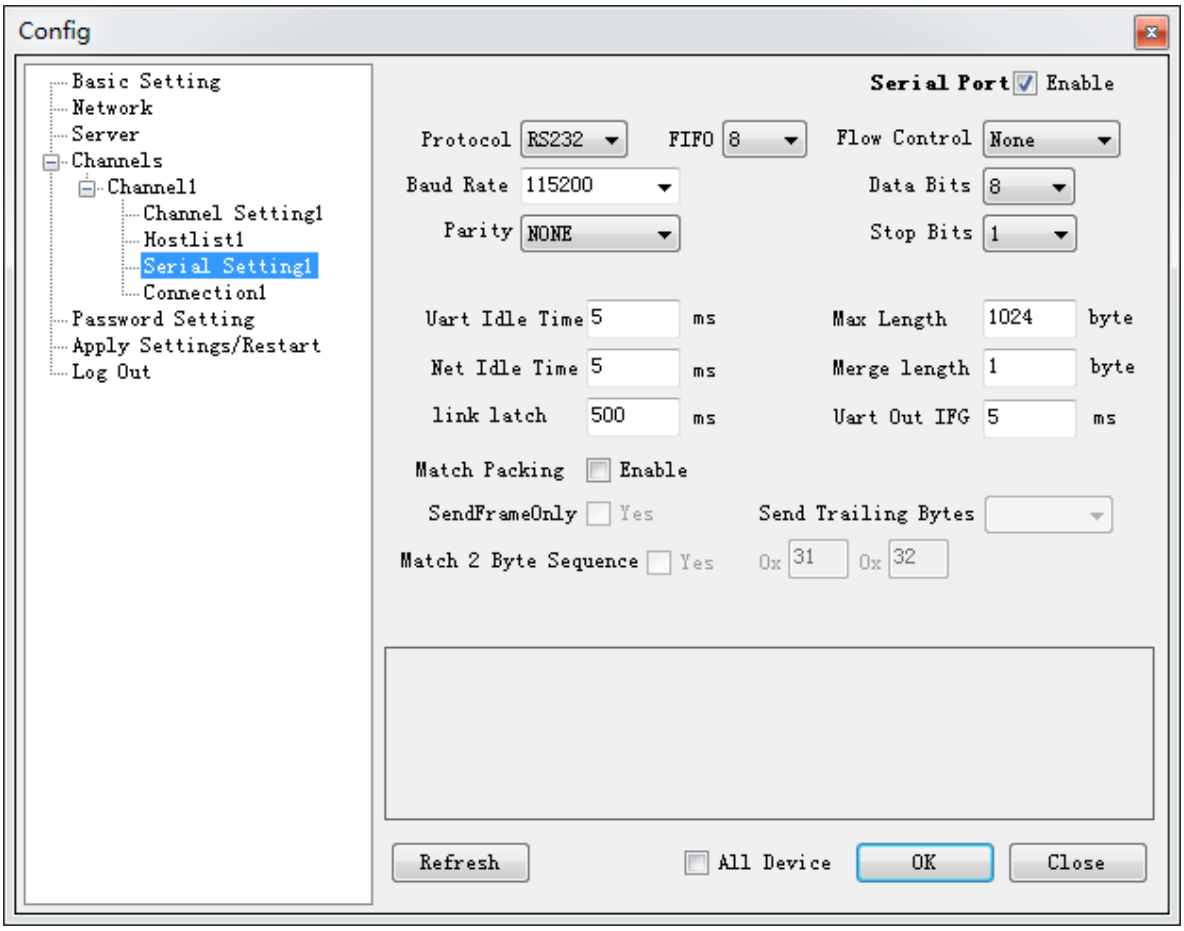
- **Max TCP Links**

Configure this channel allows the number of TCP connections established, is the total number of client and server connections.

9 Serial Settings

9.1 Overview

This chapter mainly explains the setting of serial port parameters, including baud rate, data bit, stop bit and parity check of serial port transmission performance, serial port and network transmission delay setting, etc.



9.2 Functional specifications

Serial Port
The user can open or close a serial port.

Protocol
RS485: RTS pin is data direction control output, High level for sending, low level for receiving:

RS422:(RTS:CTS=0:1); Only RS232 support flow control, And RTS pin used to indicate the link state, low level effectively, CTS pin is used to control the TCP link(need to reference “CTS Drop TCP” option).
Note: that this protocol option has no default value.

FIFO
Set FIFO

Flow Control
Set flow control options Software: XON/XOFF (0x11/0x13 or Ctrl-Q/Ctrl-S); Hardware: RTS/CTS（output/input）,Active Low.

Baud Rate
From the option to choose the appropriate baud rate, or enter a custom baud rate.

Data Bits
Set data bits, generally default 8 bits.

Parity
Set parity

Stop Bits
Set stop bits

Uart Idle Time
Every time a serial port receives data reset timer, if has been waiting for a timeout after no again to receive new data, the cache has received data package into IP packet is sent to the network.

Max Length
When the serial port receives the data length reach the set value force the received all the data into IP packets sent to the network.

Net Idle Time
After receiving the data from the network to reset timer, all of the data from serial port output (continuous output) when waiting for the timer timeout.

Merge length
When the length of the data received from the network after reaching the set value, force will have received all the data from the serial port output.

Link Latch
Receive data from multiple links at the same time, when a link of data from the serial port output afger the start timer, after waiting for a timeout to read the next link data and output from a serial port.

Uart Out IFG
Data is received from the network into the memory pool, after the end of the serial data output pause until the next frame after a timeout attempts to obtain the data sent to the serial output, pause output in order to prevent serial device data overflow occurs.

Match Packing
After waiting for data matching one or two bytes, a serial port receives the cache data immediately forwarded to the network. Usually don’t use this function, according to the value of uart_idle_time package by default.

SendFrameOnly
Only the serial receive buffer data forwarding to the network but does not include the match bytes.

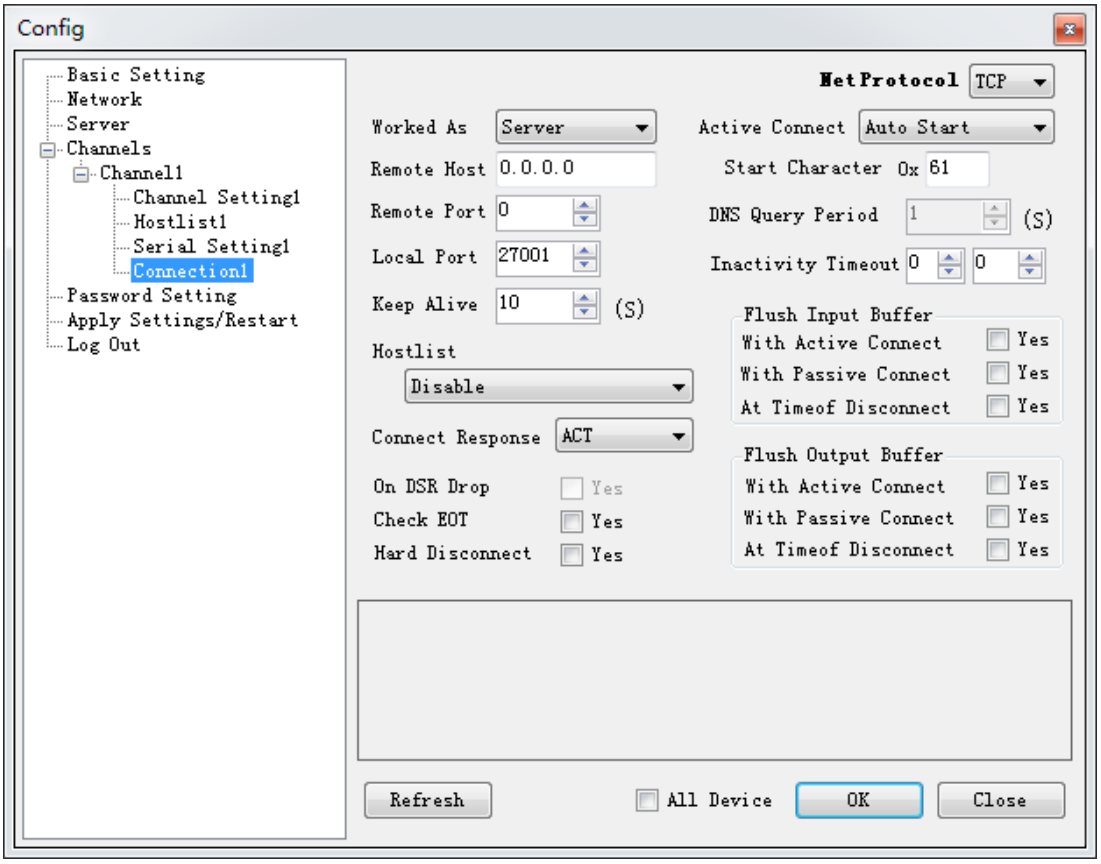
Match 2 Byte Sequence
After waiting for data matching two bytes, a serial port receives the cache data immediately forwarded to the network.

10 Connection Settings

10.1 Overview

This chapter mainly covers TCP Server, TCP Client, unicast and multicast working mode in UDP protocol.

10.2 TCP connection Settings



Net Protocol
Select the network protocol used by the current channels.

The following options are available for users to choose according to actual needs.

Options	Description
TCP	TCP connections include TCP Server, TCP Client, and Both work modes.
UDP	UDP mode includes unicast, multicast, and Both(unicast and multicast) work modes.
Both	TCP and UDP

Worked As
Set the TCP working mode, including the client, server, both, etc.
Note: client mode need to use with the option of Active Connect.

Active Connect
Set the type of the client to establish a connection to the remote host.
Note: only the Client or Client +server(Both) mode, the Client only has the function of active connection is established.

The following options are available for users to choose according to actual needs.

Options	Description
None	Close the active connection
With Any Char	Initiate connection until the serial port receives any data or the level of the input pin CTS_Pin jumps from high to low (enable required) until the data is emitted.
With Star Char	Initiate connection only if the serial port receives only one data matching the set start character.
Auto Star	Initiate connection immediately after power on/reset, and connect again after1s.
On Power Up	Make the connection immediately after power on. If it is disconnected, make the connection again.
On Reset	Initate connection immediately after reset or hot start**(/*)**. If the connection is disconnected at any time, reset it again and restart the active connection.

/* Hot start: When the module is not powered off and the system is still running normally, press "reset" key or send AT command to restart the system.

Remote Host
Fill in for TCP communication remote host IP address or domain name, the maximum length of 30 bytes, only the Client mode need this information, if you enable the host table, the host of the highest priority, server model does not need to fill out (0.0.0.0) or blank, otherwise, the part of the version will be used as filtering information.

Start Character
For "with startchar" option, only when the serial port after receving the match a byte, to establish a new connection if there is no connection.
Note: if a serial port continuously receives some data contained "StartChar" control character, will not be able to perform.

Remote Port
Set remote port

DNS Query Period
Set the domain name resolution cycle time (Unit: second), the value of this option is usually no need to modify. Even if the remote host address is dynamic domain name (DDNS) not need to be adjusted, or adjusted according to actual needs.
Note: This value can not be set to zero.

Local Port
Setting of the local port used for communication, when work in client mode this value allows set to 0, said the use of random ports to connect with peer(recommended); When working on the server or both modes are not allowed to set this value to 0, otherwise, it will cause server shut down the channel function, and check cannot conflict with other function, otherwise it will cause doesn't work properly.

Inactivity Timeout

Within a set time when there is no flow of data between devices and network, automatically disconnect idle TCP connection. Double box(minutes: seconds), single box(seconds), this option will set a maximum of 255 seconds, is set to 0 means never take the initiative to disconnect (please make sure that Keep_Alive option value cannot be set to 0).

Keep Alive
Set the time interval of bad connection checks, it is strongly recommended that don't set it to 0, if Inactivity_Timeout value is set to 0, may cause the TCP connection failure.
Note:0 means to turn off this function, only for technical parameter test evaluation or Inactivity Timeout time value is not equal to zero.

Hostlist
Set whether to use TCP redundancy backup host list, when you need a client connection redundant backup host or need to connect to multiple remote host at the same time, please select this option.

Options	Description
Disable	Close the TCP redundancy backup host list.
Only Client	Only works in client mode, providing backup to remote host.
Only Filter Allow	For IP filtering when the device is working on the server, only remote hosts in the example table allow connection requests.
Only Filter Deny	IP filtering for devices working on the server, denying host connections in the hostlist, and allowing connections to other remote hosts that are not in the hostlist.
Client and Filter Allow	Used in both client and Server modes to allow host connections in
	Hostlist at Server time. Other hosts that are not in the hostlist reject connections.
Client And Filter Deny	Used in both client and Server modes, for IP filtering at Server time, to deny host connections in the hostlist. Other remote hosts that are not in hostlist allow connections.

Connect Response
When the TCP connection is established the RTS pin output low level, otherwise the output high level, Or UDP network normal output low level.

ON DSR Drop
When the RS232 serial port input DSR pins from high level to low levels(with TTL reverse), will disconnect all TCP connection.
Note: some versions do not have this pin.

Check EOT
When a serial port receives data is only an EOT(0x04, Ctr-D) control characters, disconnect all TCP connection of this channel.
Note: if a serial port continuously receives some data contained EOT control characters, disconnected will not be able to perform.

Hard Disconnect
When disconnected without consultation (fin-ack) directly disconnect.

Flush Input Buffer

- **With Active Connect**

When working in client mode, when the active connection is established to empty the direction of the serial port to network buffer.

- **With Passive Connect**

When Work in server mode, when passive connection is established to empty the direction of the serial port to network buffer.

- **At Timeof Disconnect**

When disconnected to empty the direction of the serial port to network buffer.
Note: if this channel is other link transmission data to perform this function may cause data loss.

Flush Output Buffer

- **With Active Connect**

When working in client mode, when the active connection is established to empty the direction of the network to a serial port buffer.

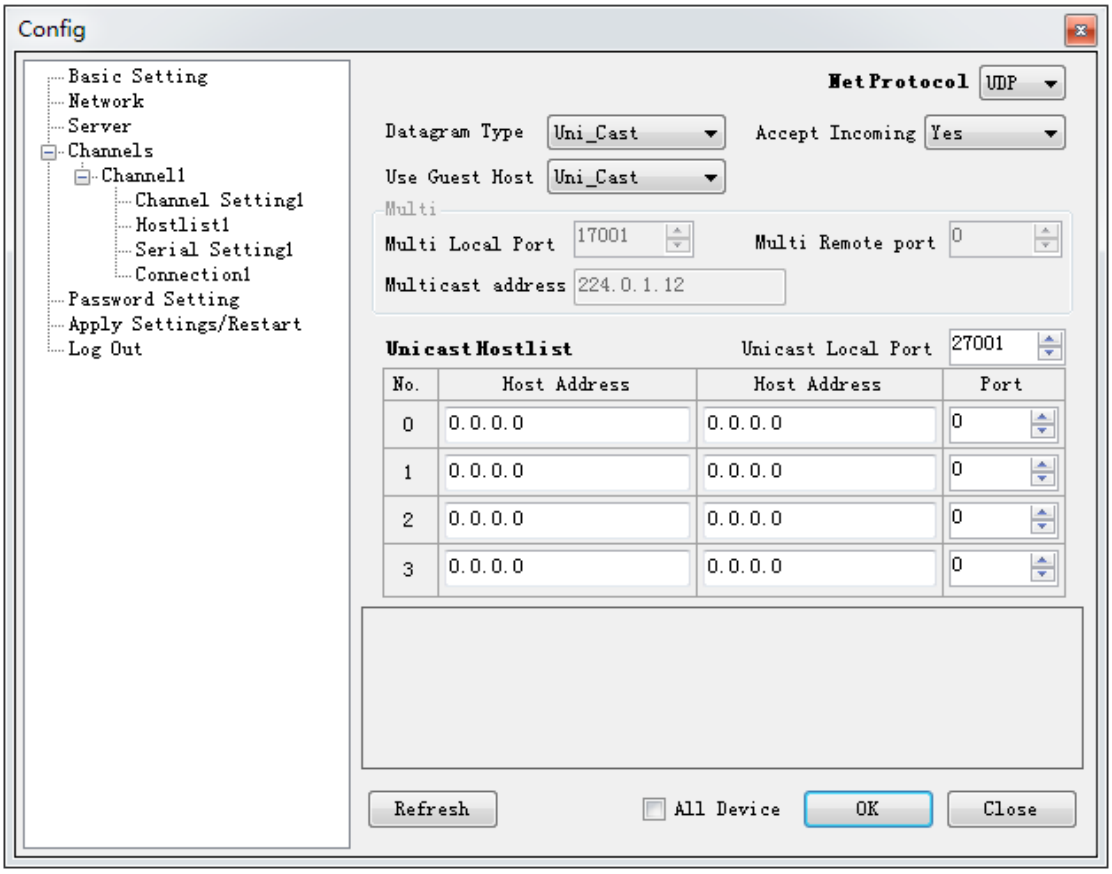
- **With Passive Connect**

When work in server mode, when passive connection is established to empty the direction of the network to a serial port buffer.

- **At Timeof Disconnect**

When disconnected to empty the direction of the network to a serial port buffer.
Note: if this channel is other link transmission data to perform this function may cause data loss.

10.3 UDP Connection Settings



NetProtocol
Select the network protocol used by the current channels. This should select the UDP mode.

Datagram Type
Select UDP data types, such as unicast(uni_cast), multicast(Multi_cast), unicast and multicast(Both_cast).

Accept Incoming
Set whether to allow receiving UDP packet from the network to the serial port.

The following options are available to the user based on actual needs

Options	Description
Yes	Receive UDP packets from the network(not including broadcast), allowing to receive UDP packets from the network to the serial port , such as unicast, multicast.
No	Refuse to receive UDP packets from the network to the serial port.
Broadcast	Receive UDP packets from the network(including broadcast), allow to receive UDP packets from the network to the serial port, such as unicast, multicast, broadcast.

Use Guest Host
This option is enabled, will record the UDP data source routing information, and then according to the need to source host returns a serial port receives the data, if the serial port work in transparent mode when the data is always returned to the source host, if use with unicast host table can achieve good network compatibility. Uni_cast: Returns in unicast mode. Multi_cast: Returns in multicast mode. Uni_Multi: Returns in two. Receive Only: only all data is received.

The following options are available for users to choose according to actual needs.

Options	Description
Disable	Disable intelligent tracking
Uni_cast	Unicast mode reply
Multi_cast	Multicast mode reply
Uni_Multi	Reply in unicast or multicast mode respectively
Receive Only	Only all data is received

Multi Local Port
UDP multicast communication module (Multi_cast) using the local port number.
Note: Some model ports, such as 5000,5001, are reserved ports of the system and cannot be reused by users.

Multi Remote port
UDP multicast (Multi_cast) communication to the remote host port number.

Multicast address
UDP multicast addresses the use of class D IP address, such as:224.0.1.0-224.0.1.254

Unicast Hostlist
Each row can be set up two remote host address, Shared the same remote port, some models will work as IP segment.

Note: When the host address is set to broadcast IP (255.255.255.255), the port is "0", while the option is turned off after the UDP TmpHost will allow all data received from the network and forwarded to the serial port, but the serial data will not be forwarded to broadcasters, but it will be forwarded to other hosts:

Unicast Local Port
When UDP unicast (Uni_cast) communications module uses the local port number.

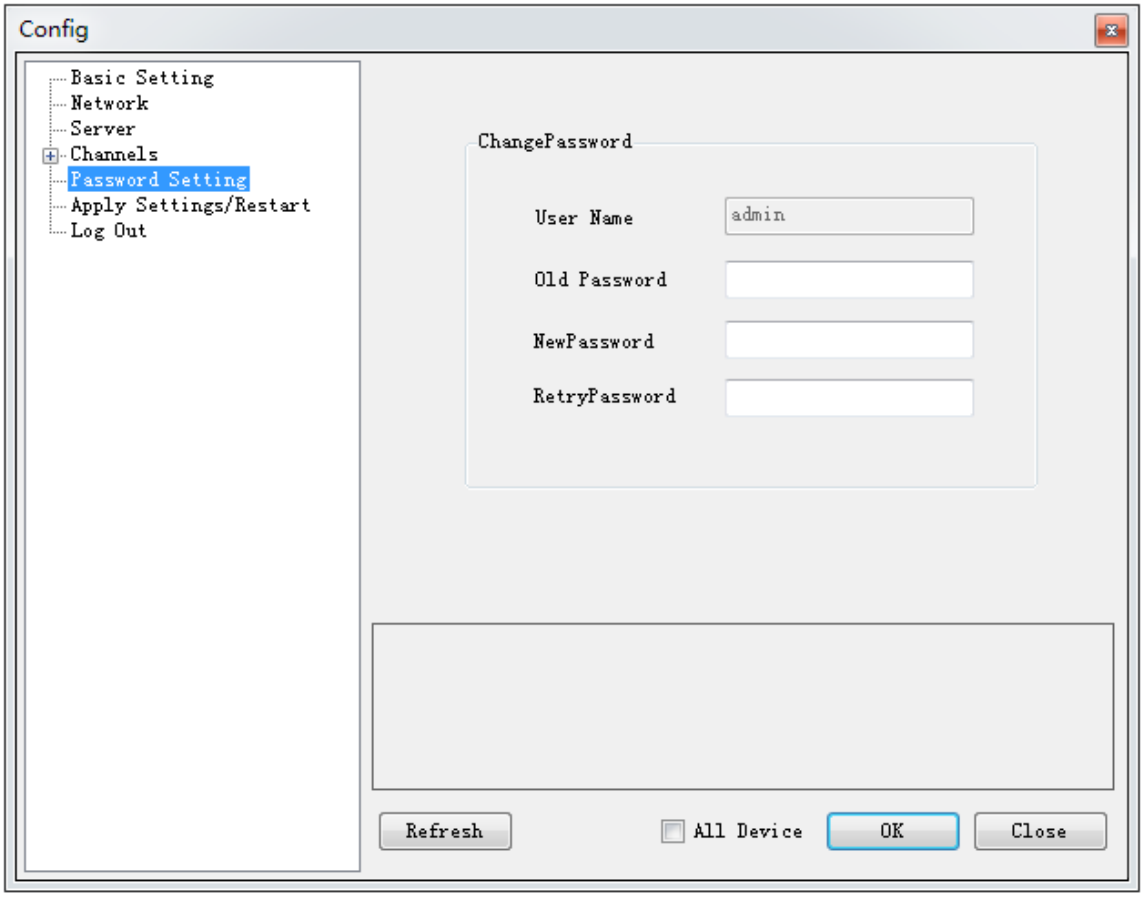
11 Password Settings

User Name: User name login

Old Password: The original password

NewPassword: The password that needs to be changed.

RetryPassword: For verification, please re-enter your new password.



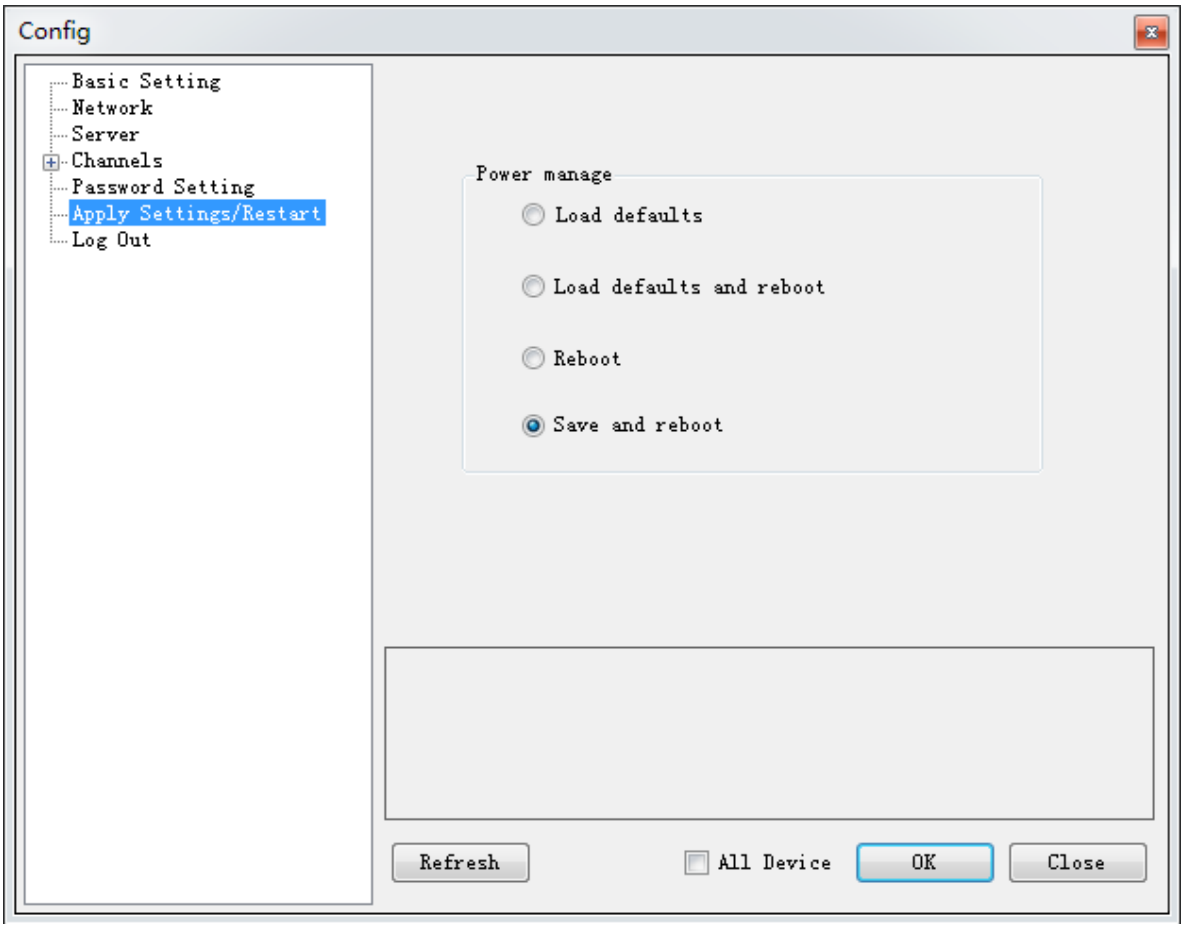
12 Apply Settings/Restart

Load defaults
Load default parameters (not restart), so that users on the basis of the default parameter adjustment parameters.

Load defaults and reboot
Restore the default parameter and restart.

Reboot
User adjust all the parameters has been lost and restart.

Save and reboot
Most of the parameters required to perform this function will be stored to the internal flash memory after restart to take effect.



13 Examples

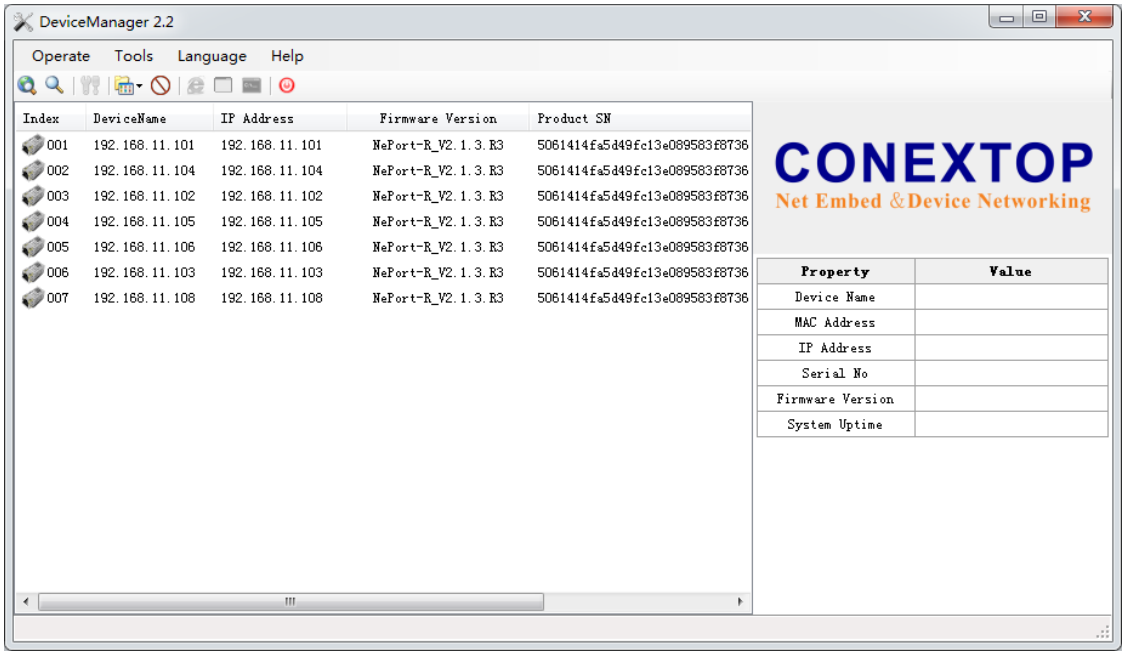
13.1 How to quickly set all module parameters

In the implementation of the project, thousands of device modules need to be configured. If parameter configuration is performed for each device module item by item, it will not only consume a lot of precious time, but also be prone to errors. In case of any error, the parameter configuration of each equipment module should be modified independently, which is very tedious and seriously affects the progress of the project and the later maintenance after the project delivery.

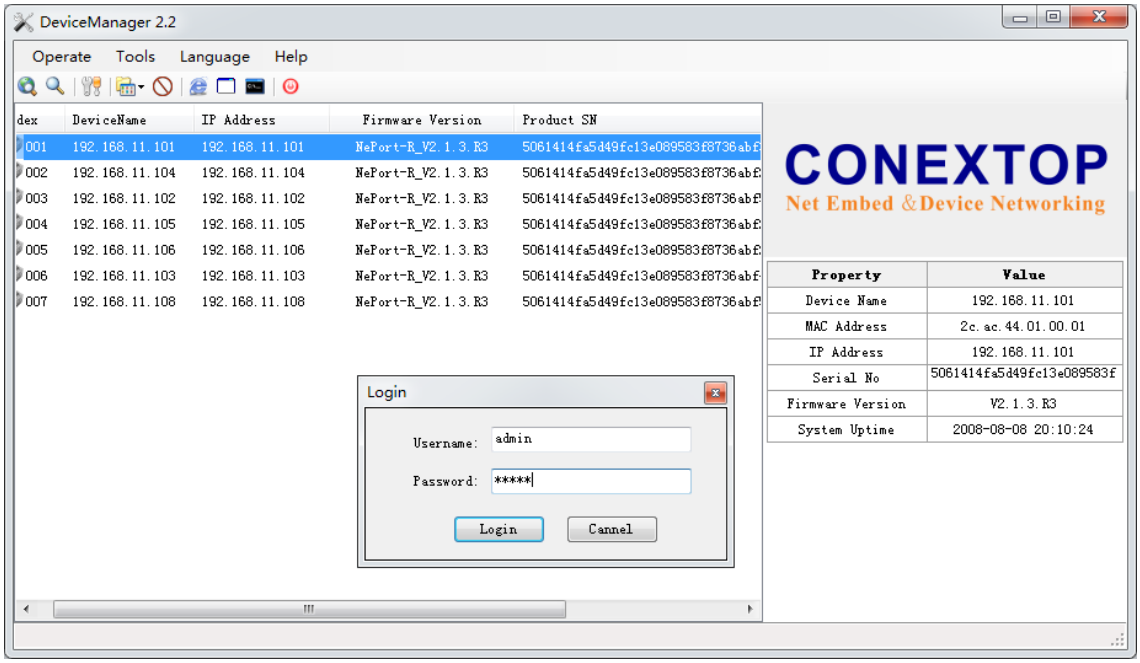
Device Manger2.2 solves this problem very well for everyone. It used to take a lot of time to configure the Device, but now it can be easily fixed at one time!

[Simple operation guide]
DeviceManger2.2 management tool can configure and debug all modules in batch, and verify the integrity of configuration synchronization according to the configuration parameter identification code and OEM parameter identification code generated after configuration.

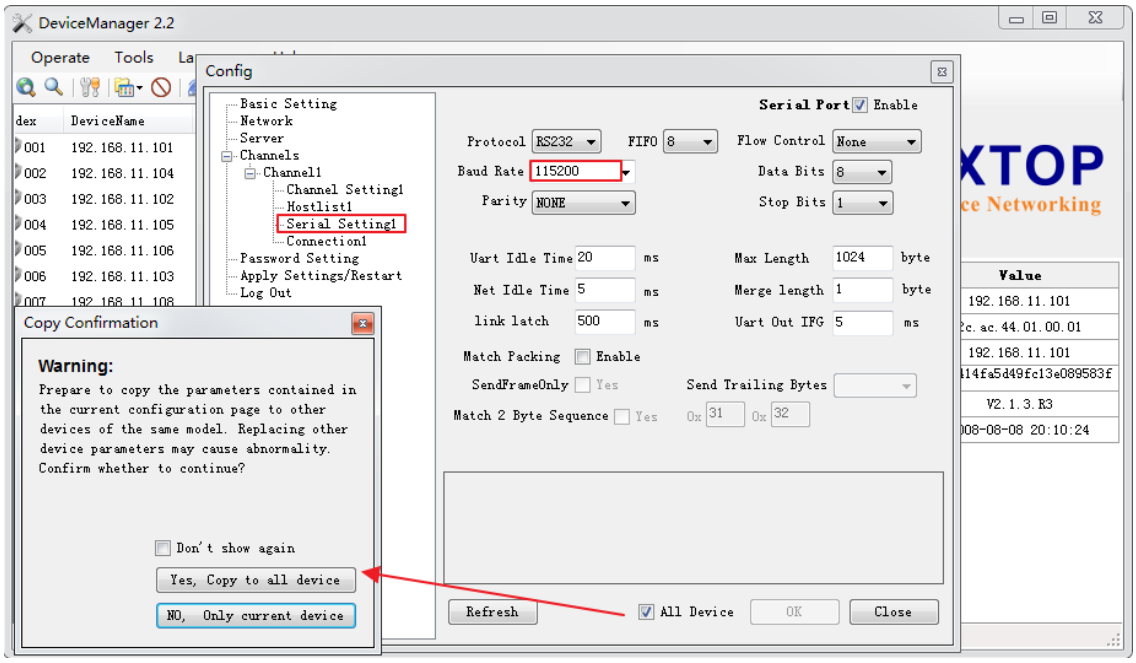
1. Open the device management tool and click the search item to start searching for devices.



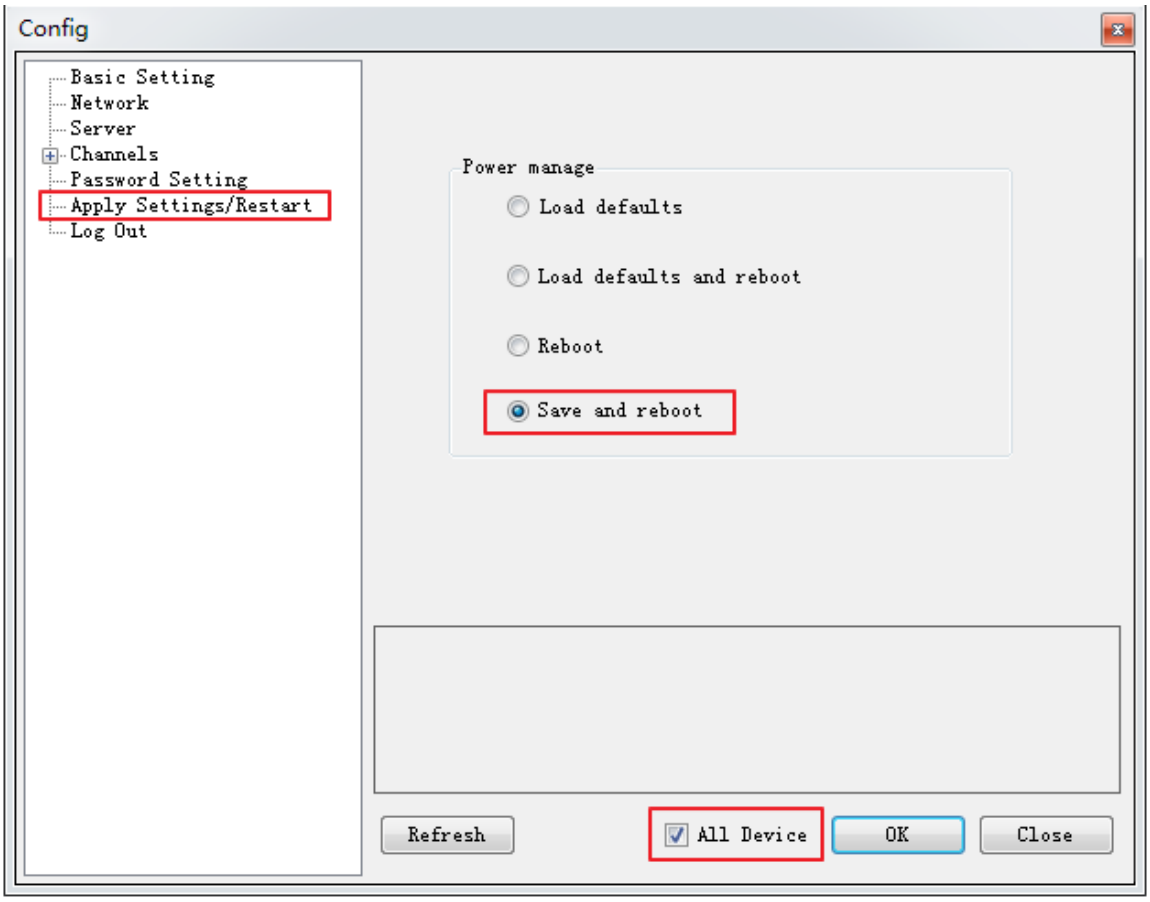
2. Double-click the device item you found to log in to the device.



3. When you need to copy the current page parameters to other devices of the same model, check "All Device". Please copy all parameters of Serial Settings1 to other devices of the same model and version according to the following figure.



Note: follow the above steps to modify the configuration parameters in the copy page, check ALL Device, save and restart, and apply to ALL devices of the same model and version.



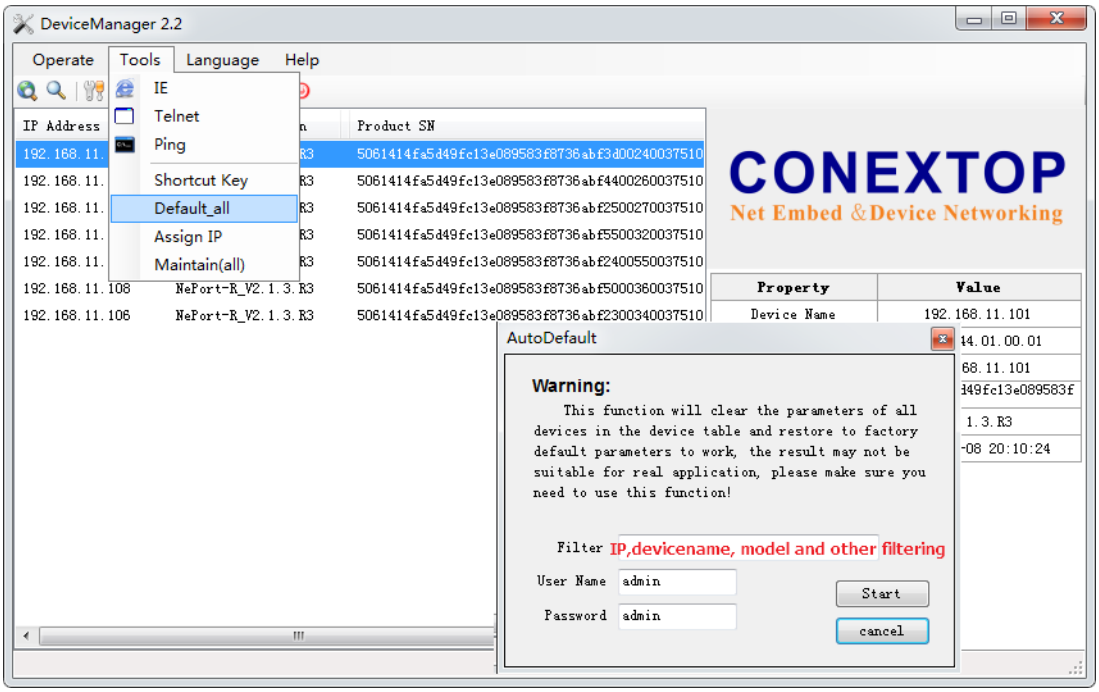
13.2 How to restore all device to OEM factory configuration

The factory configuration is the user standard configuration file defined by the OEM in the production process according to the actual requirements of the project. When the product in the production application environment, encountered difficult to deal with the problem, often by restoring the factory configuration troubleshooting, find the cause of failure. During project debugging, the factory configuration file can be invoked at will.

[Simple operation guide]

1. Click the tools->Default_all, all products restore factory configuration.

2. Wait less than 1 minute, click search, same model version module, factory configuration parameter identification code value should be the same. Factory configuration is successful when all device list fields have the same value of "OEM Parameter(Default)Fingerprint". When there is a parameter identification code is not the same, that is not correctly restored to the factory configuration. So can be screened.



Note:
1).Open the administration tool, need to search the device first, and then perform the "restore factory" configuration.
2).The filter option matches the priority from high to low: IP address->Device Name->Model->Version.

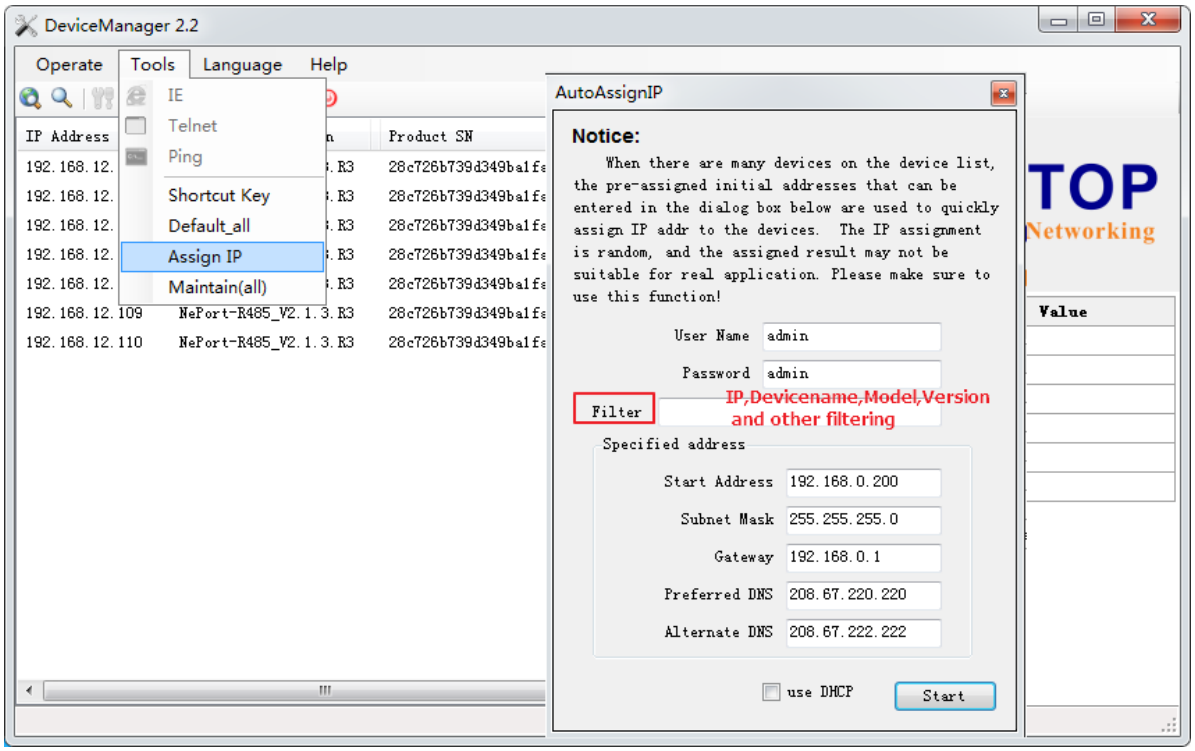
13.3 How to batch assign IP addresses to device modules

Users can specify a starting IP segment, set a subnet mask or specify a DHCP server, and can assign IP addresses to all device modules in batches.

[Simple operation guide]

1. Click tools-> Assign IP. All modules can Assign IP addresses to specify IP segments and subnet mask,or specify a DHCP server.

2. Wait less than 1 minute, click search and view all modules assigned to the IP address.
Note:
1).Open the administration tool, need to search the device first, and then perform the "restore factory" configuration.
2).The filter option matches the priority from high to low: IP address->Device Name->Model->Version.


DeviceManager 2.2
Operate
Tools
Language
Help
IE
Telnet
Ping
Shortcut Key
Default_all
Assign IP
Maintain(all)
IP Address
Product SN
192.168.12.109
NePort-R485_V2.1.3.R3
28c726b739d349ba1fa
192.168.12.110
NePort-R485_V2.1.3.R3
28c726b739d349ba1fa
AutoAssignIP
Notice:
When there are many devices on the device list, the pre-assigned initial addresses that can be entered in the dialog box below are used to quickly assign IP addr to the devices. The IP assignment is random, and the assigned result may not be suitable for real application. Please make sure to use this function!
User Name
admin
Password
admin
Filter
IP,Devicename,Model,Version and other filtering
Specified address
Start Address
192.168.0.200
Subnet Mask
255.255.255.0
Gateway
192.168.0.1
Preferred DNS
208.67.220.220
Alternate DNS
208.67.222.222
use DHCP
Start
TOP
Networking
Value

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