

# **Gigabit Multi-Homing VPN Security Gateway**

**MH-2300**

Quick Installation Guide

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## **1. Package Contents**

- MH-2300 x 1
- Quick Installation Guide x 1
- User's Manual CD x 1
- Power cord x 1
- Feet pads x 4

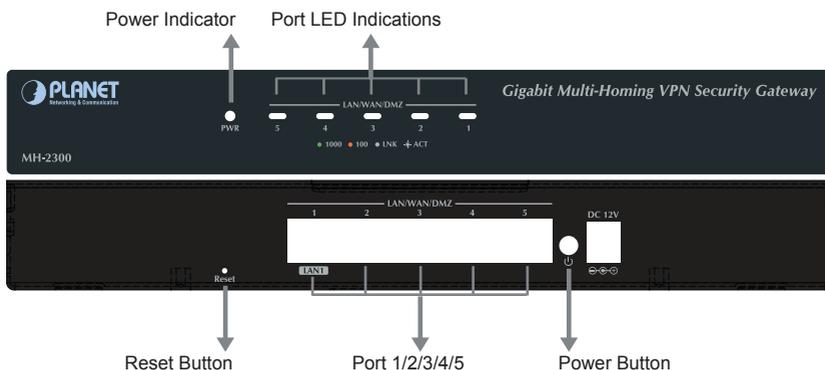
If any of the above items are damaged or missing, please contact your dealer immediately.

## 2. Setup of the Gigabit Multi-Homing VPN Security Gateway

The followings are instructions for setting up PLANET MH-2300. Refer to the illustration and follow the simple steps below to quickly install your Gigabit Multi-Homing VPN Security Gateway.

### 2.1 Hardware Installation

#### Front Panel:



Front Panel of the MH-2300

- **Power Indicator:** Lights up in green when the power is on.
- **Port 1 / 2 / 3 / 4 / 5** can be defined as:
  - ◆ LAN Port: For connecting to a switch.
  - ◆ WAN Port: For connecting to a perimeter router.
  - ◆ DMZ Port: For providing the public with services, such as email or Web, using a physically-separated network segment, while at the same time preventing any potential security threats.
- **Power Button:** For turning MH-2300 on or off.
- **Reset Button:** For resetting MH-2300 to factory default settings.



### Note

1. Port LED Indications:  
Flashing indicates the packets are processed through the device. Amber indicates a link speed at 10/100 Mbps. Green indicates a link speed at 1000 Mbps.
2. The reset button is an SMT component; please don't press it too hard. Otherwise, damage to reset function may happen.

## 2.2 Basic System Configuration

**Step 1.** Connect the IT administrator's network adaptor and MH-2300's LAN port to the same hub / switch, and then launch a browser (IE or Firefox) to link the management interface at <http://192.168.1.1>.

**Step 2.** The browser prompts you for the login credentials. (Both are "admin" by default.)

Connect to 192.168.1.1

MH-2300 Administration Tools

User name:

Password:

Remember my password

OK Cancel

Typing in the User Name and Password

**Step 3.** The user interface consists of the following two panels:

- **Menu Panel:** Presents all the available system configurations in a tree directory structure. (See Overview of Functions for further details)
- **Configuration Panel:** Displays the data or configurable settings of the corresponding item selected on the **Menu Panel**.



The MH-2300's Management Interface



Note

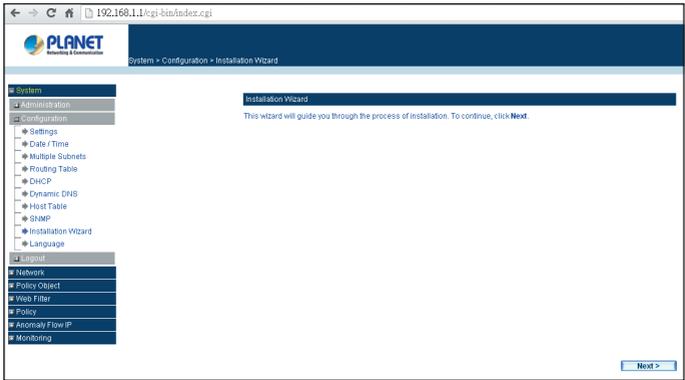
For your reference, you may configure your management address based on the available subnet ranges below.

10.0.0.0 ~ 10.255.255.255

172.16.0.0 ~ 172.31.255.255

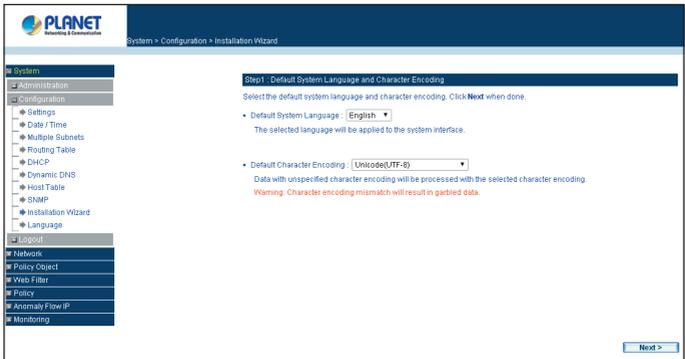
192.168.0.0 ~ 192.168.255.255

**Step 4.** At the first login, you will be guided through the basic settings that are required to install MH-2300 by the wizard.



The Install Wizard

**Step 5.** Select the language and character encoding for your management interface.



Selecting the Language and Default Character Encoding



Note

The default encoding will be applied to the data of unspecified encoding.

## 2.2.1 Deploying MH-2300 in Gateway mode

The unit is deployed to replace your existing firewall.

**Step 1.** Configure the LAN settings: (according to your network infrastructure).

- **Physical Connection:** Select "Port1 (LAN 1)".
- **Interface Type:** Select "LAN".
- **Connection Type:** Select "NAT Routing".
- Specify the **IPv4 Address** and **Netmask**.

Step2: Interface Settings

Configure the interface settings for physical connections respectively. Click **Next** when done.

Physical Connection : **Port1**

Interface Settings

Interface Designation : LAN1

Interface Type :  Disabled  LAN  WAN  DMZ

Connection Type : **NAT Routing** **Help**

IPv4 Settings

IPv4 Address : **192.168.1.1**

Netmask : **255.255.255.0**

MAC Address : **A8:F7:E0:11:22:33**

IPv6 Settings

Connecting using : **Auto-configuration**

IPv6 Address :

Prefix Length : **0**

Enable Any IP Routing **Help**

Access by/via :  Ping/Tracert  HTTP  HTTPS  Telnet  SSH **Help**

**< Back** **Next >**

Configuring the LAN Interface Settings



### Note

The access to the management interface is subject to the LAN interface. Therefore, enter the management address to a Web browser correspondingly if any changes have been made to the LAN interface.

**Step 2.** Configure the WAN Interface (please refer to your ISP for the details).

- Select "Port 5 (WAN 1)" for **Physical Connection**.
- Select "WAN" for **Interface Type**.
- Select your **Connection Type**.
- Complete the remaining fields according to your network.

Step 2: Interface Settings

Configure the interface settings for physical connections respectively. Click **Next** when done.

Physical Connection : **Port5**

Interface Settings

Interface Designation : WAN1

Interface Type :  Disabled  LAN  WAN  DMZ

Connection Type :  Static IP Address (Leased Line User)  
 Dynamic IP Address (Cable Modem User)  
 PPPoE (ADSL Dial-Up User)

IPv4 Settings

IPv4 Address : 211.21.21.21  
Netmask : 255.255.255.0  
IPv4 Default Gateway : 211.21.21.254  
MAC Address : A8:F7:E0:11:22:33

IPv6 Settings

Connecting using : Auto-configuration  
IPv6 Address :  
Prefix Length :  
IPv6 Default Gateway :

Max. Downstream Bandwidth : 512 Mbps (1 - 1000)  
Max. Upstream Bandwidth : 512 Mbps (1 - 1000)

Keepalive Properties :

**Help** Type : DNS  
DNS IP Address : 8.8.8.8  
Domain Name : 8.8.4.4 (Max. 55 characters)  
Minimum Interval : 5 second(s) (0 - 99, 0: no detection)

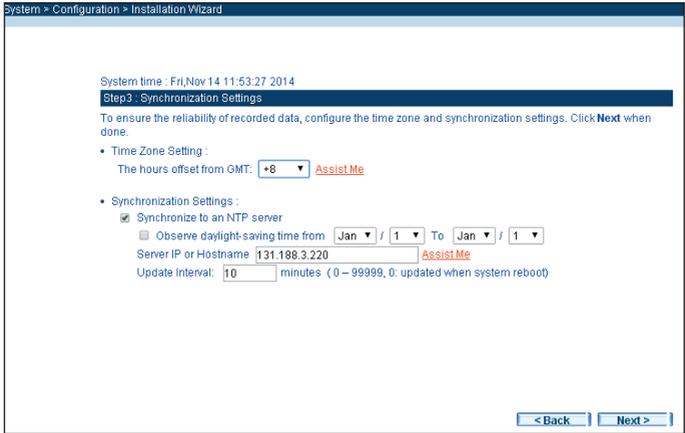
NAT Redirection : Auto-configuration  
**Help**

Access by / via :  Ping/Tracert  HTTP  HTTPS  Telnet  SSH  
**Help**

< Back Next >

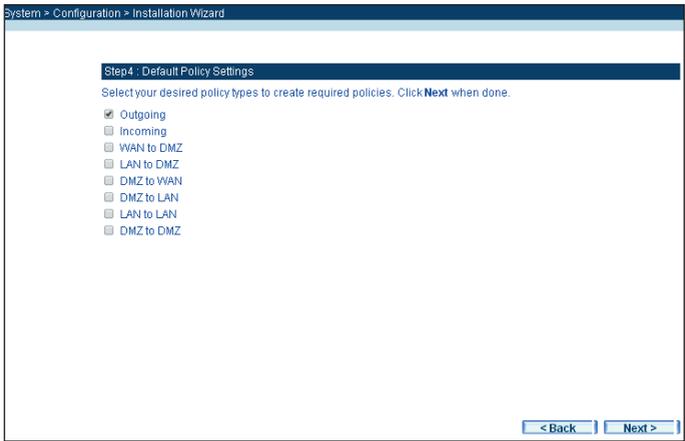
Configuring the WAN Interface Settings

**Step 3.** Tick the box of **“Synchronize to an NTP server”** to ensure the accuracy of system clock.



Configuring the System Clock Settings

**Step 4.** Tick the box of **“Outgoing”** to create a policy for outgoing traffic.



Creating an Outgoing Network Policy



## Note

1. After the completion of wizard, an outgoing network policy is created correspondingly under **Policy > Outgoing**.
  - **Source Address** is defaulted to "Inside\_Any".
  - **Destination Address** is defaulted to "Outside\_Any".
  - **Service** is defaulted to "Any".

Source	Destination	Service	Action	Options	Configuration	Priority
Inside_Any	Outside_Any	Any	✓		Modify Remove Pause	1

New Entry

The Policy Allowing LAN Users to Access External Network Resources

2. To allow Internet access to LAN users, assign their PCs with static IP addresses within the same subnet as MH-2300 as well as designate MH-2300 as the default gateway. Otherwise, enable DHCP service to automatically distribute IP addresses to them. LAN traffic can be regulated by means of network policies if desired.

**Step 5.** This step confirms what interface addresses have been assigned to MH-2300.

Port	Name	Connection Type	IP Address / Netmask	Saturated Connections	Configuration	Priority
1	LAN1	NAT Routing	192.168.1.1 / 255.255.255.0	---	Modify	---
2	Port2	---	0.0.0.0 / 0.0.0.0	---	Modify	---
3	Port3	---	0.0.0.0 / 0.0.0.0	---	Modify	---
4	Port4	---	0.0.0.0 / 0.0.0.0	---	Modify	---
5	WAN1	Static IP	211.21.21.21 / 255.255.255.0	---	Modify	1

Confirmation on Interface Settings

**Step 6.** Installation is completed after clicking **Finish** from the previous step.

## 2.2.2 Deploying MH-2300 in Non-inline Mode

The unit is attached to your LAN switch without any network interference.

On the existing firewall, specify a LAN subnet.

Place MH-2300 on the LAN behind the firewall.

**Step 1.** Configure the LAN interface as shown below:

- Select "Port 1 (LAN 1)" for **Physical Connection**.
- Select "LAN" for **Interface Type**.
- Select "NAT Routing" for **Connection Type**.
- Specify the **IPv4 Address** and **Netmask**.

The screenshot shows the 'Step 2: Interface Settings' configuration page. At the top, it says 'Configure the interface settings for physical connections respectively. Click Next when done.' Below this, the 'Physical Connection' is set to 'Port1'. The 'Interface Settings' section includes: 'Interface Designation: LAN1', 'Interface Type' with radio buttons for Disabled, LAN (selected), WAN, and DMZ, and 'Connection Type' set to 'NAT Routing'. The 'IPv4 Settings' section has 'IPv4 Address' set to '192.168.1.1', 'Netmask' set to '255.255.255.0', and 'MAC Address' set to 'A8:F7:E0:11:22:33'. The 'IPv6 Settings' section has 'Connecting using' set to 'Auto-configuration', 'IPv6 Address' and 'Prefix Length' fields are empty. At the bottom, there is a checkbox for 'Enable Any IP Routing' and a list of 'Access by / via' options: Ping/Tracert, HTTP, HTTPS, Telnet, and SSH, all of which are checked. Navigation buttons for '< Back' and 'Next >' are at the bottom right.

Configuring the LAN 1 Interface Settings

**Step 2.** Configure the WAN interface as shown below:

- Select "Port 5 (WAN 1)" for **Physical Connection**.
- Select "WAN" for **Interface Type**.
- Select your **Connection Type**.
- Complete the remaining fields according to your network.

Step 2 : Interface Settings

Configure the interface settings for physical connections respectively. Click **Next** when done.

Physical Connection : **Port5**

**Interface Settings**

Interface Designation : WAN1

Interface Type :  Disabled  LAN  WAN  DMZ

Connection Type :  Static IP Address ( Leased Line User )  
 Dynamic IP Address ( Cable Modem User )  
 PPPoE ( ADSL Dial-Up User )

IPv4 Settings

IPv4 Address : 211.21.21.21

Netmask : 255.255.255.0

IPv4 Default Gateway : 211.21.21.254

MAC Address : A8:F7:E0:11:22:33

IPv6 Settings

Connecting using : Auto-configuration

IPv6 Address :

Prefix Length :

IPv6 Default Gateway :

Max. Downstream Bandwidth : 512 Mbps ( 1 - 1000 )

Max. Upstream Bandwidth : 512 Mbps ( 1 - 1000 )

Keepalive Properties :

**Help** Type : DNS

DNS IP Address : 8.8.8.8

Domain Name : 8.8.4.4 ( Max. 55 characters )

Minimum Interval : 5 second(s) ( 0 - 99, 0: no detection )

NAT Redirection : Auto-configuration

**Help**

Access by / via :  Ping/Tracert  HTTP  HTTPS  Telnet  SSH

**Help**

**< Back** **Next >**

Configuring the WAN 1 Interface Settings

**Step 3.** Tick the box of “Synchronize to an NTP server” to ensure the accuracy of system clock.

System > Configuration > Installation Wizard

System time : Fri, Nov 14 11:53:27 2014

**Step3: Synchronization Settings**

To ensure the reliability of recorded data, configure the time zone and synchronization settings. Click **Next** when done.

- Time Zone Setting :  
The hours offset from GMT:  [Assist Me](#)
- Synchronization Settings :  
 Synchronize to an NTP server  
 Observe daylight-saving time from  /  To  /   
Server IP or Hostname  [Assist Me](#)  
Update Interval:  minutes (0 - 99999, 0: updated when system reboot)

[< Back](#) [Next >](#)

Configuring the System Clock Settings

**Step 4.** Tick the boxes to create the corresponded policies for each type of network traffic.

**Step4: Default Policy Settings**

Select your desired policy types to create required policies. Click **Next** when done.

- Outgoing
- Incoming
- WAN to DMZ
- LAN to DMZ
- DMZ to WAN
- DMZ to LAN
- LAN to LAN
- DMZ to DMZ

[< Back](#) [Next >](#)

Creating Policies for Each Type of Network Traffic

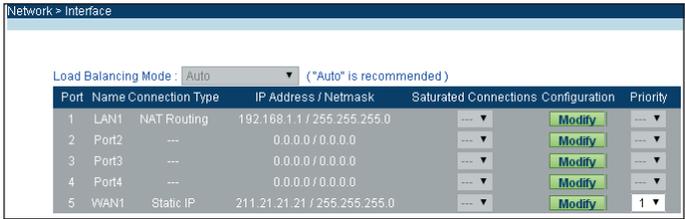


**Note**

After the completion of wizard, an outgoing network policy is created correspondingly under **Policy > Outgoing, Incoming, WAN to DMZ, LAN to DMZ, DMZ to WAN, DMZ to LAN, LAN to LAN, DMZ to DMZ.**

- **Source Address** is defaulted to “Inside\_Any”.
- **Destination Address** is defaulted to “Outside\_Any”.
- **Service** is defaulted to “Any”.

**Step 5.** This step confirms what interface addresses have been assigned to MH-2300.



The screenshot shows a table titled "Network > Interface" with a "Load Balancing Mode" dropdown set to "Auto". The table lists five ports with their respective configurations:

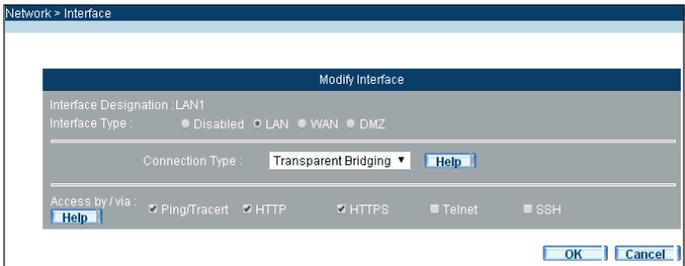
Port	Name	Connection Type	IP Address / Netmask	Saturated Connections	Configuration	Priority
1	LAN1	NAT Routing	192.168.1.1 / 255.255.255.0	---	Modify	---
2	Port2	---	0.0.0.0 / 0.0.0.0	---	Modify	---
3	Port3	---	0.0.0.0 / 0.0.0.0	---	Modify	---
4	Port4	---	0.0.0.0 / 0.0.0.0	---	Modify	---
5	WAN1	Static IP	211.21.21.21 / 255.255.255.0	---	Modify	1

Confirmation on Interface Settings

**Step 6.** Installation is completed after clicking **Finish** from the previous step.

**Step 7.** Under **Network > Interface**, set as shown below:

- Click **Modify** corresponding to the Port 1.
- Select "LAN" for **Interface Type**.
- Select "Transparent Bridging" for **Connection Type**.
- Tick the boxes of "Ping/ Tracert", "HTTP" and "HTTPS".
- Click **OK**.



The screenshot shows the "Modify Interface" dialog box. The "Interface Designation" is set to "LAN1". The "Interface Type" is set to "LAN" (radio button selected). The "Connection Type" is set to "Transparent Bridging". The "Access by / via" section has checkboxes for "Ping/Tracert", "HTTP", and "HTTPS" all checked, and "Telnet" and "SSH" unchecked. There are "Help", "OK", and "Cancel" buttons.

Configuring the LAN 1 Interface Settings

**Step 8.** Connect MH-2300's Port 5 (WAN 1) to your LAN switch or hub and remove the connection on Port 1 (LAN 1).

Port	Name	Connection Type	IP Address / Netmask	Saturated Connections	Configuration	Priority
1	LAN1	Transparent Bridge	0.0.0.0 / 0.0.0.0	---	Modify	---
2	Port2	---	0.0.0.0 / 0.0.0.0	---	Modify	---
3	Port3	---	0.0.0.0 / 0.0.0.0	---	Modify	---
4	Port4	---	0.0.0.0 / 0.0.0.0	---	Modify	---
5	WAN1	Static IP	211.21.21.21 / 255.255.255.0	---	Modify	1

The Network Address Settings for Non-inline Mode



The access to MH-2300 is now available through the WAN 1 port only. Therefore, use the address specified for the WAN interface to access the management interface.

**Step 9.** Under **Network > Interface Group**, set as shown below:

- Select "Group 1" for **Port 1 (LAN 1)** and **Port 5 (WAN 1)**.
- Click **OK**.

Interface Group Settings

Port1 (LAN1) : Group 1    Port2 (Port2) : -----    Port3 (Port3) : -----    Port4 (Port4) : -----

Port5 (WAN1) : Group 1

OK    Cancel

Grouping the Network Interfaces

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### **3. Further Information**

Thank you for purchasing PLANET products. The above steps introduce simple configuration for MH-2300. For further configuration, please refer to the user's manual on the CD. If you have other questions, please contact the local dealer where you purchased this product or you can contact PLANET directly at the following email address: [support@planet.com.tw](mailto:support@planet.com.tw).

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