



# Application Guide

## M2M Configuration



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## Revision History

Updates between document versions are cumulative. Therefore, the latest document version contains all updates made to previous versions.

Doc Version	Product	Release Data	Details
V1.0	Hongdian Router	2017.08.23	First Release
V2.0	Hongdian Router	2020.09.03	

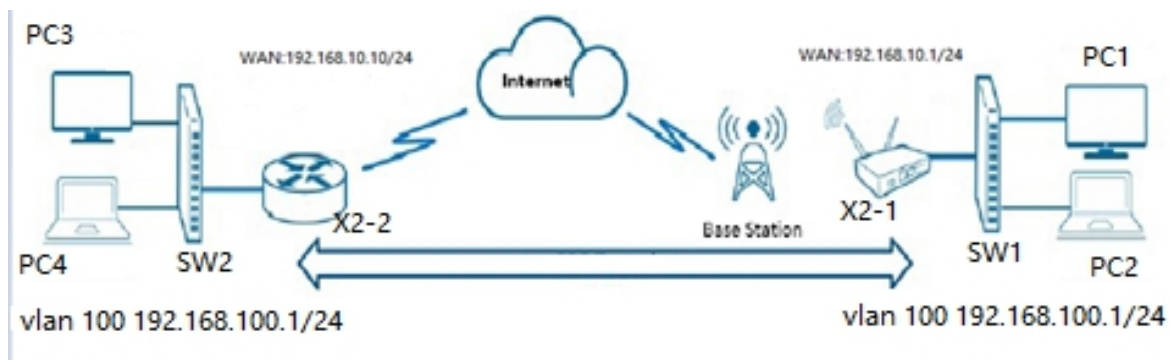
# 1 Overview

VLAN (Virtual Local Area Network)

VLAN technology is widely used in network networking. In some network networking, we need to connect some switches and routers through the WAN port or LAN port of the Hongdian router to form a network. This article will introduce in detail how Hongdian routers are connected to switches or routers of CISCO and other brands through the WAN port or the LAN port.

## 2 Description

### 2.1 Topology



**Note:**

- a. X2-1 LAN1 connect to SW 1 port 1
- b. SW1 port 10 connect to PC1, port 11 connect to PC2
- c. X2-2 LAN1 connect to SW2 port 1
- d. SW2 port 10 connect to PC 3, port 11 connect to PC4.

## 2.2 Hongdian Setup(X2-1)

The screenshot shows the 'VLAN' configuration page. The 'VLAN' tab is highlighted. The configuration fields are as follows:

- VID: 100 (range 3-4094)
- Isolate:  Enabled  Disable
- Address: 192.168.100.1/24 (example: 192.168.1.0/24)
- DHCP Server:  Enabled  Disable
- Untagged Ports:  lan1  lan2  lan3  lan4
- Tagged Ports:  lan1  lan2  lan3  lan4

Buttons: Save, Return

**Note:** The vid of VLAN must be 3~4094.

Build vlan100, and assign the IP address 192.168.100.1/24.config LAN 1 as trunk port.

The screenshot shows the 'EoGRE' configuration page. The 'EoGRE' tab is highlighted. The configuration fields are as follows:

- Status:  Enable  Disable
- Tunnel Name: 1 (Max length is 8)
- Local Address: 192.168.10.1 (example: 192.168.10.1)
- Remote Address: 192.168.10.10 (example: 192.168.10.2)
- Permit VLAN List: 100
- Select VLAN:  100

Buttons: Save, Return

**Note:** The maximum number of commands that can be set is 10.

Local address:X2-1 modem ip addr or Wan ip addr,  
Remote address:X2-2 modem ip addr or Wan ip addr  
Select Vlan :100

**Notes:**

In this case,X2-1 connect to X2-2 via Wan port,so local addr is 192.168.10.1,remote addr is 192.168.10.10

## 2.3 Hongdian Setup(X2-2)

The screenshot shows the 'VLAN' configuration page. The 'VLAN' tab is highlighted in the top navigation bar. The configuration fields are as follows:

- VID: 100 (with a note: \* 3-4094)
- Isolate:  Enabled  Disable
- Address: 192.168.100.1/24 (with a note: \* eg: 192.168.1.0/24)
- DHCP Server:  Enabled  Disable
- Untagged Ports:  lan1  lan2  lan3  lan4
- Tagged Ports:  lan1  lan2  lan3  lan4

Buttons for 'Save' and 'Return' are visible at the bottom of the form. A 'Note' on the right states: 'The vid of VLAN must be 3~4094.'

Build vlan100, and assign the IP address 192.168.100.1/24.config LAN 1 as trunk port.

The screenshot shows the 'EoGRE Tunnel' configuration page. The 'EoGRE' tab is highlighted in the top navigation bar. The configuration fields are as follows:

- Status:  Enable  Disable
- Tunnel Name: 1 (with a note: \* Max length is 8)
- Local Address: 192.168.10.10 (with a note: \* eg. 192.168.10.1)
- Remote Address: 192.168.10.1 (with a note: \* eg. 192.168.10.2)
- Permit VLAN List: 100
- Select VLAN:  100

Buttons for 'Save' and 'Return' are visible at the bottom of the form. A 'Note' on the right states: 'The maximum number of commands that can be set is 10.'

Local address:X2-2 Modem ip addr or Wan ip addr  
 Remote address:X2-1 modem ip addr or Wan ip add  
 Select Vlan :100

### Notes:

In this case,X2-2 connect to X2-1 via Wan port,so local addr is 192.168.10.10,remote addr is 192.168.10.1

## 2.4 Switch Setup

SW1 configuration

- config SW1 port1 as trunk port.
- config SW1 port 10,11as access port
- Build vlan 100 and assign port 1,10,11 to vlan 100

SW2 configuration

- config SW2 port as trunk port.
- config SW2 port 10, 11 as access port
- Build vlan 100 and assign port 1,10,11 to vlan 100




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## **Contact us**

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