

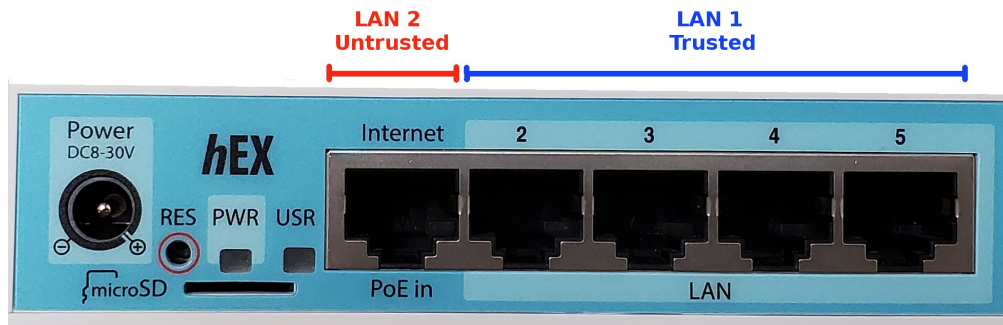
XT-hEX Application Note

Enabling a Second Untrusted Port (LAN3)

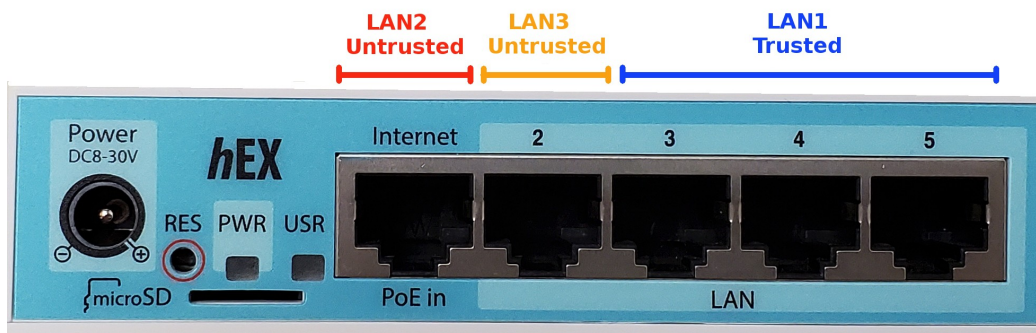
Overview

A feature of the XT-hEX, XT-3303, and XT-3305 is the ability to support two untrusted networks. This allows for two separate Internet connections to the device and for the tunnel to fail-over from a primary ISP to a backup ISP. These products have software configured Ethernet ports where each can be dynamically assigned to the LAN1 trusted, LAN2 untrusted, or LAN3 untrusted networks. The purpose of this Application Note is to describe the process of enabling LAN3 and assigning it a physical interface.

The default configuration for the XT-hEX is one untrusted interface (LAN2) and four trusted interfaces (LAN1). This matches the layout of our older UT/ET-3302 products. The four ports in LAN1 all reside in the same broadcast domain.



However, by removing port 2 from LAN1 and allocating it to LAN3, we can achieve the following.



LAN3 may then be independently configured, with its own IP address, netmask, and gateway. Port 2 becomes the connection point for LAN3 and is no longer part of the LAN1 domain.

Configuration

Before starting, make sure Ethernet port 2 is not in-use. Since we are going to move the interface from LAN1 to LAN3, we don't want to be actively using the interface.

The first step is to enable the LAN3 interface. It is disabled by default. To do this, navigate to the **LAN3 – Mode** page and enable the interface.

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LAN3 Mode
Lan3 disable enable
Monitor Link no
Mode IP PPPoE
Submit Cancel

The current configuration has not been activated.
The current configuration has not been stored to nonvolatile memory.

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Now, navigate to the **Switch Ports – Switch Ports** page and assign **eth2** to the LAN3 switch port group.

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Switch Port Grouping
eth1 lan2
eth2 lan3
eth3 lan1
eth4 lan1
eth5 lan1
Submit Cancel

The current configuration has not been activated.
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Finish by configuring the LAN3 interface. We are showing a static configuration below, but you may statically configure or use DHCP to automatically configure the interface. Don't forget to activate and store your changes.

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LAN3 IP Configuration

Configure IP automatic-via-DHCP
 Static-Configuration

Static-Configuration

IP Address 192.168.3.161
Subnet Mask 255.255.255.0
Gateway 192.183.3.254
Primary DNS Server 8.8.8.8
Alternate DNS Server 8.8.4.4

Submit Cancel

The current configuration has not been activated.
The current configuration has not been stored to nonvolatile memory.

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Keep in mind that any Ethernet port could have been allocated to LAN3. Port 2 was simply the port we chose for this example. You are free to allocate the ports in a way that best fits your application. In fact, you may allocate more than one port to LAN3. When you do, the ports will be in the same broadcast domain and will support switching between the ports.

We highly recommend that you label your port layout. It's easy to forget the port layout months later when you may need to revisit the device.