



PULSE EIGHT MS SERIES One IP Transceiver User Guide

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PULSE EIGHT MS SERIES One IP Transceiver



Specifications

- Product: Pulse-Eight OneIP Transceiver
- Capabilities: AV-over-IP solution for distributing UltraHD 4K HDMI 2.0 video with HDR support
- Network: 1Gbps Ethernet network

Product Usage Instructions

Core Switch Configuration

- 1. Log in to the Pakedge Switch web interface using default credentials (admin/password).
- 2. Create a new secure username and password.
- 3. Set the switch to a static IP address or DHCP reserved from the DHCP server if needed.
 - Select Configure > LAN > Static mode and set IP address, Subnet Mask, and Gateway.
 - · Save settings by clicking Apply.
 - · Log in using the new IP address and credentials.
- 4. Enable IGMP Snooping under Advanced settings and configure VLAN settings for OneIP devices.
- 5. Configure Multicast Router VLAN settings and set Unregistered Multicast Behaviour to Drop.
- 6. Ensure IGMP Snooping Querier is enabled with IGMP Version set to V2.

FAQ

- Q: Can I connect OneIP devices before completing the\ configuration?
- A: No, it is important to complete the configuration first to avoid network issues due to multicast data flooding.
- Q: What should I do if I encounter issues during the configuration process?
- A: If you encounter any issues, refer to the user manual for troubleshooting steps or contact customer support for assistance.

INTRODUCTION

The Pulse-Eight OneIP transceiver is an ultra-low latency, AV-over-IP solution capable of distributing UltraHD 4K HDMI 2.0 video (18Gbps), with support for HDR, over a 1Gbps Ethernet network. The following is a step-by-step tutorial for configuring the Packedge MS series switches for use with Pulse-Eight OneIP TRX units. Please follow the instructions below before connecting any OneIP devices to the switch.



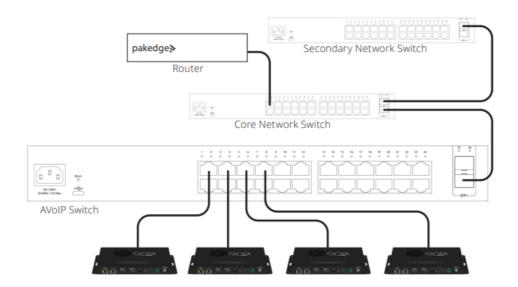
SUPPORTED PRODUCTS

· Pakedge MS series switches.

Note: Please note this has only been tested with MS2424 at the present time.

IMPORTANT NOTES!

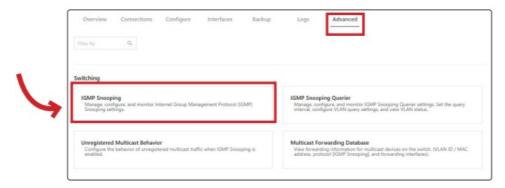
Do NOT connect any OneIP devices to the switch before configuration is completed, doing so may cause the switch to run slow or crash due to multicast data flooding the network.



CORE SWITCH (OR SINGLE SWITCH) CONFIGURATION

Log in to the Pakedge Switch web interface. The Pakedge MS switches are set to DHCP by default; to find an IP address, you need to scan the network or check the DHCP server; if no DHCP server is available, the switch will default to 192.168.1.205.

- 1. Log in to the Web UI. The default credentials are admin and password.
- 2. Create a new secure password and username.
- 3. Set the switch to a static IP address or DHCP reserved from the DHCP server (optional).
 - Select "Configure" then under "LAN" change mode to Static and set the desired IP address, Subnet Mask, and Gateway.
 - 2. Save the settings by clicking "Apply" in the top right corner of the screen. The switch will reboot and use the static or reserved IP address.
 - 3. Once "Submitting" shows on the screen, close the browser window.
- 4. Log in to the Web UI using the new IP address, username, and password.
- 5. From the main menu, select "Advanced" and then 'IGMP Snooping' under the switching section.



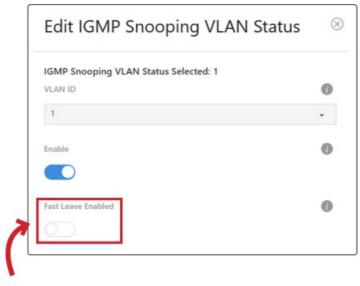
6. Enable the IGMP Snooping Global Configuration and Status toggle switch and click "Apply".



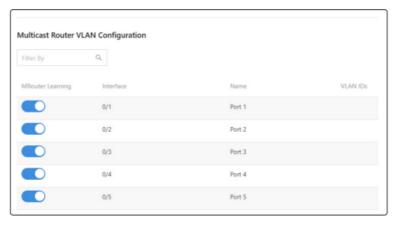
7. Move to the VLAN Status page, and click "OPTIONS" button to add a VLAN entry



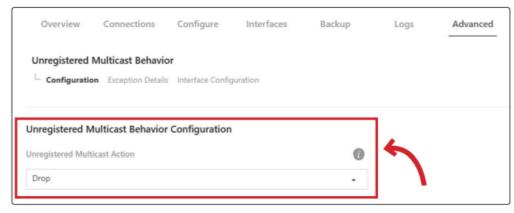
8. Select the VLAN ID on which the OneIP devices are connected and disable Fast Leave for all switches



- 9. Click the Apply button in the top right corner of the page.
- 10. On the Multicast Router VLAN Configuration page, enable MRouter Learning on all ports and click Apply.



11. Go to Advanced > Unregistered Multicast Behaviour > Configuration. Set Unregistered Multicast Behaviour Configuration to Drop. Click Apply.



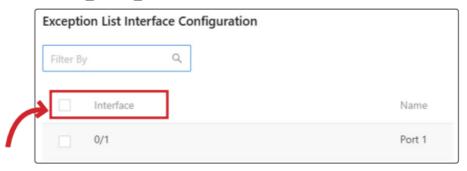
12. If you notice an entry for EXC_default_list under the Exemptions list, proceed to the next steps. If not, then your configuration is complete.



13. Click on the Interface Configuration tab, then select Options and Edit



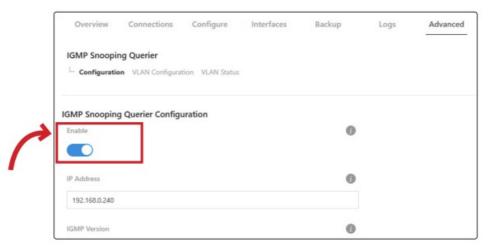
14. To select all entries in the EXC_default_list, click the box next to Interface. Then, click Edit Selected.



15. Click the "x" in the EXC_default_list object to delete it.



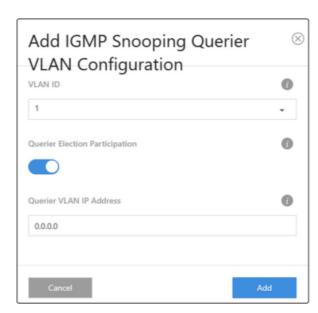
- 16. Click Save and then Apply at the top of the page.
- 17. Go to Advanced > IGMP Snooping Querier > Configuration. Click Enable and make sure the IGMP Version is set to V2, then click Apply at the top of the page.
- 18. The Querier IP address should be set to the same IP address as the switch.



- 19. Select the VLAN Configuration Tab in the IGMP Snooping Querier menu.
- 20. On the right side, select the three dots under OPTIONS and choose 'Add



- 21. Confirm VLAN 1 is selected and enable 'Querier Election Participation'. The VLAN IP can be 0.0.0.0.
- 22. Then, click the Add button



- 23. Click the Apply button in the top right corner of the screen.
- 24. This is all that is needed for a single-switch setup

MANUAL VERSION HISTORY

• V1.0 – 8th February 2024. First version

Documents / Resources



<u>PULSE EIGHT MS SERIES One IP Transceiver</u> [pdf] User Guide MS SERIES One IP Transceiver, MS SERIES, One IP Transceiver, Transceiver, Transceiver

References

• User Manual

Manuals+, Privacy Policy

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