PULSE EIGHT TRX One IP Transceiver Instructions

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PULSE EIGHT TRX One IP Transceiver

Product Information

Specifications

- **Product Name:** Pulse-Eight OneIP Transceiver
- **Features:** Ultra-low latency, AV-over-IP solution
- **Video Support:** UltraHD 4K HDMI 2.0 video (18Gbps), HDR
- **Network Compatibility:** 1Gbps Ethernet network

Product Usage Instructions

Core Switch Configuration

1. Navigate to Port Management> Green Ethernet > Properties.
2. Disable 802.3 EEE and click apply.
3. Navigate to Multicast > Properties and set Bridge Multicast Filtering Status to Enable, then click Apply.
4. Navigate to Multicast > IPv4 Multicast Configuration > IGMP Snooping.
    - Enable IGMP Snooping Status.
    - Enable IGMP Querier Status.
    - Click Apply.
5. From the same page, select the radio button in the IGMP snooping table next to Entry No.1 and click the edit button (pencil icon).
6. **Adjust the following settings:**
    - Enable IGMP Snooping Status.
    - Enable Immediate Leave.
    - Enable IGMP Querier Status.
    - Enable IGMP Querier Election.
    - Set IGMP Querier to V2.
    - Set Querier Source IP Address to Auto.
    - Click Apply.
7. Navigate to Multicast > Unregistered Multicast and set all ports to Filtering, then click Apply.
8. Navigate to Multicast > Multicast router port and set the port connected to a core switch or router to ‘Forbidden’, then click apply.
9. Once the configuration is complete, select the red save icon at the top of the screen.
10. Switch configuration is now complete, and you can connect the OneIP devices.

Frequently Asked Questions

Q: Can I connect OneIP devices before completing the configuration?

A: No, connecting OneIP devices before completing the configuration may cause issues with network performance due to multicast data flooding.

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 Cisco CBS350 series switch for use with Pulse-Eight OneIP (TRX/TX/RX) units. Please follow the instructions below before connecting any OneIP devices to the switch.

SUPPORTED PRODUCTS

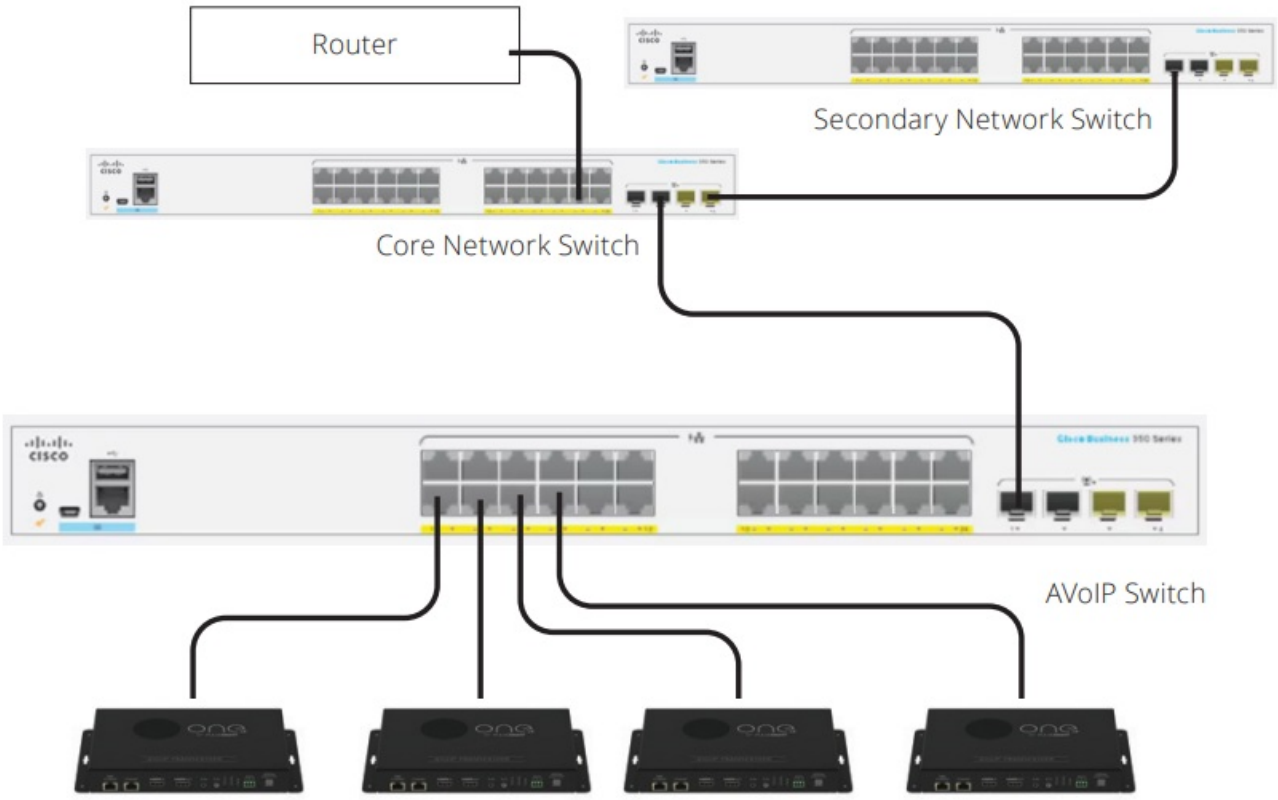
Cisco CBS350 series switches

IMPORTANT NOTES!

- Do NOT connect any OneIP devices to the switch before configuration is complete, doing so may cause the switch to run slow or crash due to multicast data flooding the network.
- Ensure that the Querier IP address is pointing at the AV Switch.

ONEIP NETWORK CONFIGURATION GUIDE

ONEIP NETWORK CONFIGURATION GUIDE – Cisco CBS350

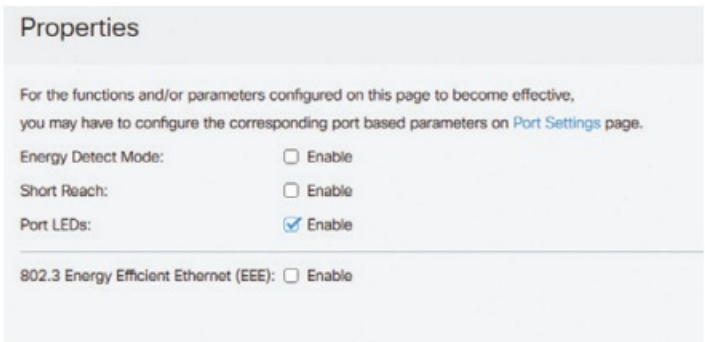


CORE SWITCH (OR SINGLE SWITCH) CONFIGURATION

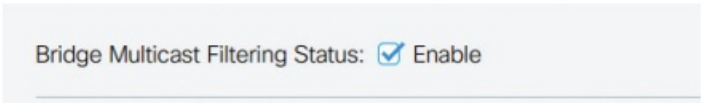
Log into the Cisco Switch web interface, the Cisco CBS350 switches are set to DHCP by default, you will need to scan the network or check the DHCP server to find the IP address, if no DHCP server is available the switch will default to 192.168.1.254

1. Log into the Web UI. Default credentials are Cisco and Cisco.
2. Create a new secure Username and Password and click Apply at the top right-hand side of the screen
3. Log in with New Credentials
4. In the top right drop-down menu change access from Basic to Advanced

5. Navigate to Port management > Green Ethernet > Properties Disable 802.3 EEE and click apply

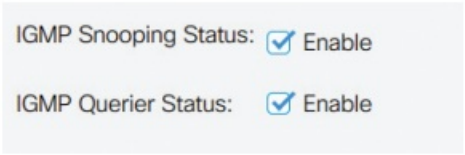


6. Navigate to Multicast > Properties and set Bridge Multicast Filtering Status to Enable click apply



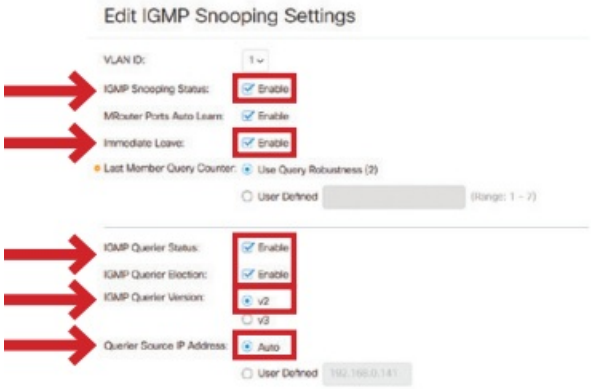
7. Navigate to Multicast > IPv4 Multicast Configuration > IGMP Snooping
    - **a.** Enable IGMP Snooping Status
    - **b.** Enable IGMP Querier Status

- **c.** Click Apply



8. From the same page, click select the radio button in the IGMP snooping table next to Entry No.1 and click the edit button (pencil icon)

9. **Adjust the following settings**
   - **a.** Enable IGMP Snooping Status
   - **b.** Enable Immediate Leave
   - **c.** Enable IGMP Querier Status
   - **d.** Enable IGMP Querier Election
   - **e.** Set IGMP Querier to V2
   - **f.** Set Querier Source IP Address to Auto



10. Click Apply
11. Navigate to Multicast > Unregistered Multicast set all ports to Filtering and click Apply

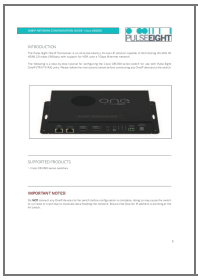
12. Navigate to Multicast > Multicast router port and set the port connected to the core switch or router to ‘Forbidden’ click apply

13. Once the configuration is complete select the red save icon at the top of the screen

14. The switch configuration is now complete you can go ahead and connect the OneIP devices

- **MANUAL VERSION HISTORY**
- **V1.0 – 24th April 2024**

Documents / Resources

	PULSE EIGHT TRX One IP Transceiver [pdf] Instructions TRX, TX, RX, TRX One IP Transceiver, TRX, One IP Transceiver, IP Transceiver, Transceiver

References

- User Manual