PRO DSX - HDMI Over IP
Network Switch Configuration
For DLINK DGS 1210-28p

Revision: 1.1
System Application Diagram

Customizable Matrix Control App (available for iOS, and Android Devices)
Introduction:

**Scope:** This guide provides a reference for configuring your network switch to work with the Octava PRO DSX HDMI Over IP Matrix System.

This configuration guide is based on the DLINK DGS1210-28P

In this guide we will configure the network switch so some of the advanced features are enabled:

**Jumbo frame:** Jumbo frames are Ethernet frames with more than 1500 bytes of payload.

**Multicast Video:** Multicast as compared to Unicast is a more efficient method of delivering video to multiple clients. Multicasting requires only 1 “channel/group” to be transmitted regardless of number of clients that will subscribe to the “channel/group”. Unicast would require 1 stream for each client, thus would increase the bandwidth requirement by N(number of clients).

**IGMP (internet group management protocol):** IGMP Querying/Snooping, optimizes network loading by ensuring that Multicast traffic is only forwarded to ports that are members of that Multicast group.
1. Connect a LAN cable directly from your PC to the network switch.

2. Set your computer network settings to:
   - IP Address: 10.0.0.2
   - Subnet: 255.0.0.0
   - Gateway: 10.0.0.1

3. Open a browser and enter the IP address of the D-LINK: 10.90.90.90
4. Select Standard mode and Exit

5. Select VLAN
6. Select 802.1Q VLAN

7. Select all ports and set as Untagged

8. Select L2 Functions. Set JUMBO Frame = Enable
9. Go to Multicast and set as follows:

- Set IGMP Snooping = Enable
- Host Time Out = 260
- Robustness Variable = 2
- Query Interval = 125
- Router Timeout = 125
- Last Member Query Interval = 1
- Max Response Time = 10
10. Goto / Multicast / IGMP Snooping

State = Enabled
Querier State = Enabled
Fast Leave = Enabled

11. Set port 28 as Static Router Port. Leave other ports unselected
12. Goto Multicast / Multicast Filtering Mode

Set Filtering mode = Forward Unregistered Groups

13. Save

14. Reboot Device