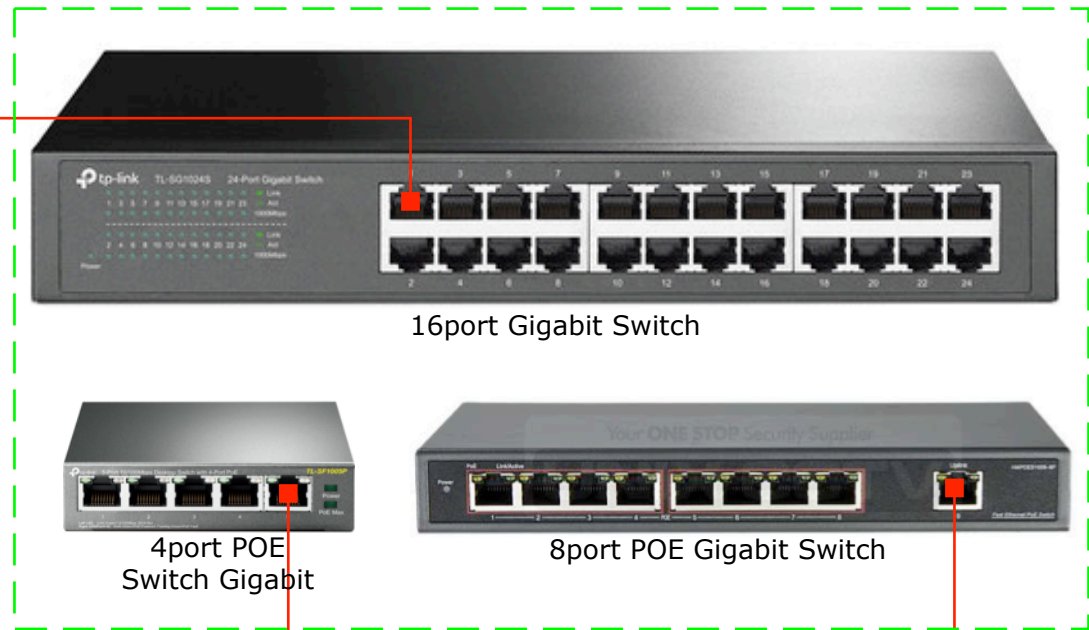
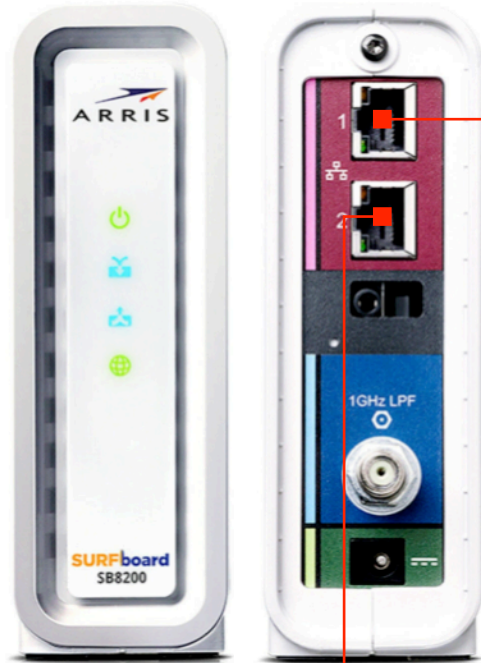


ISP Modem/Router
ARRIS SB8200



4 Video Transmitters
1 Video Receiver
HDMI over IP



2 Video Receiver
HDMI over IP



1 Video Receiver
HDMI over IP

PORT SETTINGS (PVID) AND TAGGING/UNTAGGING

Description	IP	1	PVID	2	PVID	3	PVID	4	PVID	5	PVID	6	PVID	7	PVID	8	PVID
10G SW1	192.168.0.150	U	1	U	1	U	1	U	30	U	30	U	30	U	30	U	30
10G SW2	192.168.0.151	U	1	U	1	U	1	U	1	U	1	U	1	U	30	U	30
10G SW3	192.168.0.152	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	30

U = UNTAGGED
 T = TAGGED
 BLANK = NON MEMBER

 VLAN 1 = NATIVE VLAN
 VLAN 30 = VIDEO VLAN

NOTES:

- I HAVE SUCCESSFULLY SET UP VLANS IN THE PAST, WITH DIFFERENT EQUIPMENT SO DONT GRILL BE TOO HARD FOR BEING A NOOB.
- THE 4 & 8PORT POE SWITCHES, AS WELL AS 16PORT GIGABIT SWITCH IN THE GREEN DASHED BOX ARE COMMUNICATING WITH EACH OTHER, AND WORKING PROPERLY ON THE NATIVE VLAN (VLAN 1).
- THERE ARE 40+ DEVICES CONNECTED ON VLAN 1, MANY OF WHICH ARE ESSENTIAL AND VITAL TO THE OPERATION OF THIS SMART HOME.
- ALL TRANSMITTERS AND RECEIVERS CONNECTED @ 10G-SW1 ARE WORKING CORRECTLY. THE RECEIVER CAN CONNECT TO ANY TRANSMITTER. THE 4 TRANSMITTERS ARE CONNECTED VIA HDMI TO 3X CABLE BOXES, AND 1 SECURITY NVR DEVICE.
- THE RECEIVERS @ 10G-SW2 AND 10G-SW3 ARE NOT COMMUNICATING ACROSS SWITCHES, ON THE ASSIGNED VLAN & PVID. YOU CAN COMMUNICATE WITH THE RECEIVERS WHEN CONNECTED ON THE SAME SWITCH, AND PVID'D TO THE SAME VLAN.
- I THINK IT HAS SOMETHING TO DO WITH TRUNKING THE PORTS AND TAGGING/UNTAGGING VLAN MEMBERSHIP DATA, BUT NOT REALLY AN EXPERT ON THIS TOPIC.

Q1. WITH THE HARDWARE DESCRIBED (3X TEG-7080ES 10GB SMART SWITCHES), CAN I CONFIGURE THEM WITHOUT ANY OTHER EQUIPMENT TO FACILITATE SEPARATE VLANS (VLAN 1 & 30), BETWEEN THE SWITCHES ONLY? (TRYING TO KEEP ON SAME SUBNET)

Q2. DOES THE ISP MODEM/ROUTER, OR AN ADD'L DEVICE BETWEEN THE MODEM/ROUTER AND SWITCHES THAT SUPPORTS VLAN NEED TO BE DEPLOYED? ← WOULD PREFER NOT TO ADD ANOTHER DEVICE.