

This User Guide is for control of the HDDSX Matrix using the Telnet feature of the CISCO SG300. For other types control , contact us.

The Octava HDDSX Matrix System works in conjunction with a Cisco SG-300 series managed Ethernet switch.

Note- we recommend using your SG300 series Ethernet switch as a dedicated switch for video matrix switching only.

If your Cisco SG300 switch has **NOT** been configured for work as a HDDSX Matrix, you must first configure it per the instructions :[“Configuring Managed Ethernet switch for Octava HDDSX Matrix.”](#)

Your Cisco SG300 - switch has been configured for work as a 8x 20 HDDSX Matrix, please proceed.

The following procedure is specific for you SG300-20 configured as a 8x10 HDDSX MATRIX

What you will need:

1. A fully functioning wireless router at your location.
Example, you can already connect to this wireless router to access Internet
2. A LAN port on the wireless router to connect to the Cisco Ethernet Switch.

1. Note the MAC Address of your Cisco SG300 . MAC address is on the back of the SG300

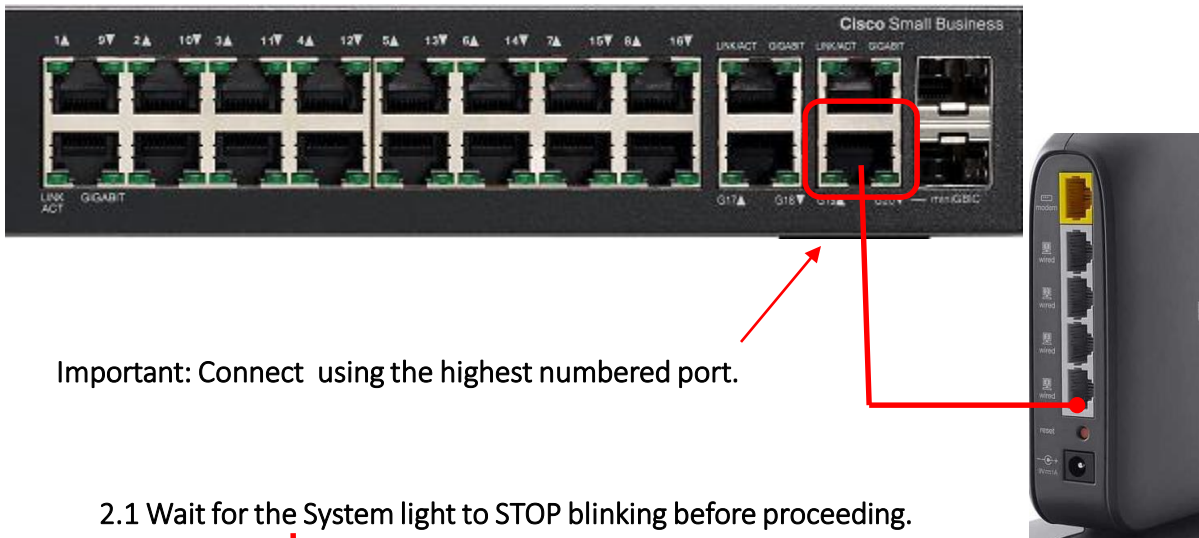


MAC:

2. Connect your Cisco Ethernet switch to your wireless router and power up.

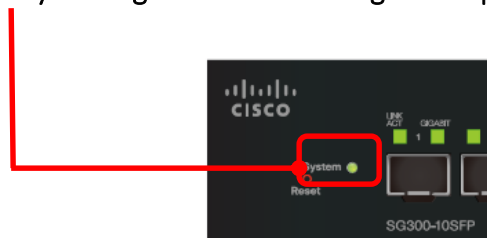
Important: Connect using the highest numbered port.

For example, if you have a SG-300-20. Connect **G20** port to one of the LAN ports of the wireless router



Important: Connect using the highest numbered port.

- 2.1 Wait for the System light to STOP blinking before proceeding.



3. Determine the IP address of the Connected Cisco SG300- switch.

Your wireless router (in most cases) will assign an IP address to the connected Cisco SG300 switch.

3.1 Access the web interface of your wireless router (consult the manual of your router)

3.2 Go the “DHCP Client” or “Device List” and find the ip Assigned to the Cisco switch. Look for the MAC address of your Cisco SG300 and find the assigned ip adress.

Example:

Device IPv4 Address / Name	MAC Address	Status	Connection	Allocation
192.168.1.67	00:50:b6:59:f7:bf	off	Ethernet	dhcp
192.168.1.68	04:54:53:ef:90:e8	off	Ethernet	dhcp
192.168.1.69	f0:bf:97:22:98:60	off	Ethernet	dhcp
192.168.1.70 / Apple-TV-2	58:55:ca:54:9d:e1	on	Wireless	dhcp
192.168.1.71	54:04:a6:43:20:75	off	Ethernet	dhcp
192.168.1.72	28:0d:fc:83:de:2f	on	Ethernet	dhcp
192.168.1.73	84:78:ac:a7:78:1e	off	Ethernet	dhcp
192.168.1.100	68:7f:74:bb:a8:9a	on	Ethernet	static
192.168.1.102 /	40:25:c2:87:b5:04	on	Wireless	dhcp
192.168.1.104 /	dc:2b:61:6d:2f:d6	on	Wireless	dhcp
192.168.1.105 / Octavas-iPad	b8:ff:61:a4:e3:8d	on	Wireless	dhcp
192.168.1.106 / self-q2f83f9h4g	00:13:72:89:a2:ad	on	Ethernet	dhcp
192.168.1.110 / NPIBB1545	08:2e:5f:bb:15:45	on	Ethernet	dhcp
192.168.1.111 / switchc6eda0	0c:27:24:c6:ed:a0	off	Ethernet	dhcp
192.168.1.112	6c:62:6d:61:8e:70	off	Ethernet	dhcp
192.168.1.113	5c:a3:9d:6d:b3:f9	off	Ethernet	dhcp
192.168.1.114 / android-30b1b80eef708015	ac:22:0b:4a:57:8a	on	Wireless	dhcp
192.168.1.115 / android-45c187191902a688	a0:82:1f:5b:05:da	on	Wireless	dhcp
192.168.1.117 / switchc464cf	ec:e1:a9:c4:64:cf	on	Ethernet	dhcp

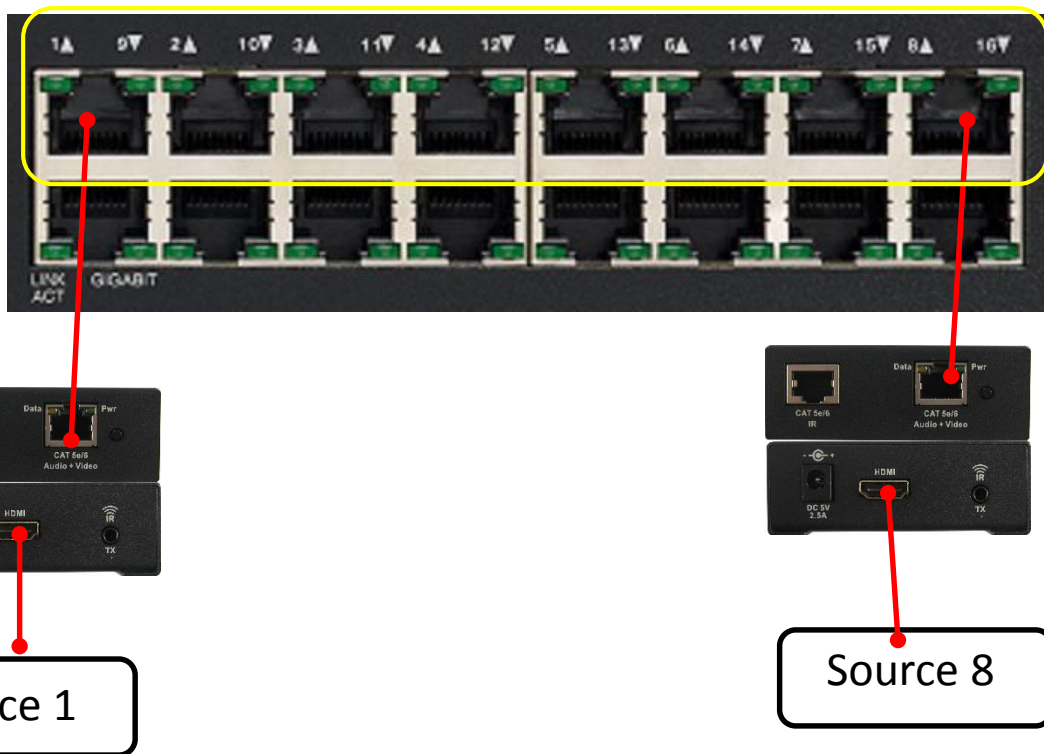
MAC address

ip address:

4. Connect the HDDSX-Transmitters

4.1 Connect the “Audio + Video” port of **HDDSX-Transmitter** to ports 1-8 of the Cisco SG300

Example, if you only have 4 video sources, you will connect to Ports 1-4



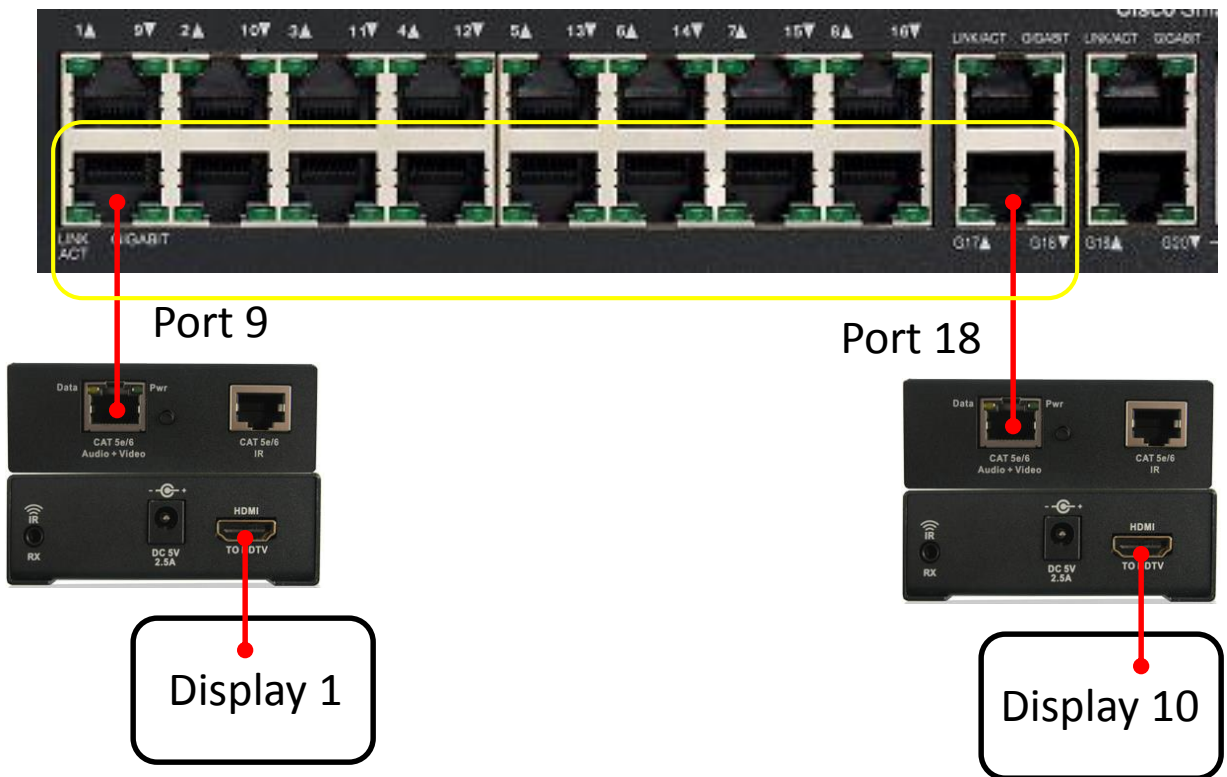
4.2 Power up the HDDSX-TX

4.3 Connect to the sources with a HDMI cable

5. Connect the HDDSX-Receivers

5.1 Connect the “Audio + Video” port of HDDSX-Receiver to ports 9-18 of the Cisco SG300

Note: PORT 9 will be assigned to Display1



5.1 Power up the HDDSX-TX

5.2 Connect to the sources with a HDMI cable

Connection Check List (source)

Video Sources	Cisco Switch Port	vlan	Note
Source Input 1	1	vlan2	
Source Input 2	2	vlan3	Leave unconnected if not required
Source Input 3	3	vlan4	Leave unconnected if not required
Source Input 4	4	vlan5	Leave unconnected if not required
Source Input 5	5	vlan6	Leave unconnected if not required
Source Input 6	6	vlan7	Leave unconnected if not required
Source Input 7	7	vlan8	Leave unconnected if not required
Source Input 8	8	vlan9	Leave unconnected if not required

Connection Check List (Display and router)

Displays /router	Cisco Switch Port	Interface port	Note
Display 1	9	gi9	
Display 2	10	gi10	
Display 3	11	gi11	
Display 4	12	gi12	
Display 5	13	gi13	
Display 6	14	gi14	
Display 7	15	gi15	
Display 8	16	gi16	
Display 9	17	gi17	
Display 10	18	gi18	
	19		Not Used
Wireless Router	20		For Telnet control. Connect to router

You may send Telnet commands to the SG300-20 to control the matrix.

1. Telnet to the ip address assigned to the Cisco SG300 switch. (see step 3)

Example: telnet 192.168.x.xxx

2. When prompted enter the Username and Password for your pre-configured SG300 switch

Username: **ciSCO**

Password: **sg300-octava**

Port: **23** (if port number is required ENTER port 23)

You may enter the telnet commands as shown to control the matrix.

	Commands	Variable	Note
1	config		
2	interface	gi [9-18]	Select the display port to be switched. Reference the “connection checklist”
3	switchport trunk native	vlan[2-9]	Select the input source. Reference the “connection checklist”

Example 1: switch display 1 to source 2

	Commands	Variable	Full Command
1	config		config
2	interface	gi9	Interface gi9
3	switchport trunk native	vlan3	switchport trunk native vlan3

Example 2: Switching display10 to Input 4

	Commands	Variable	Full Command
1	config		config
2	interface	gi18	Interface gi18
3	switchport trunk native	vlan5	switchport trunk native vlan5

Note: each command line should end with Enter /Return.

Important Note: DO Not SYSTEM RESET the Cisco Switch or the SG300 will need to re-configured.



You may un-power the SG300 without losing any settings.