Warner Media - XOS - Quick Start Guide

Unpacking and racking 1.

1. Use this list to ensure that your order is complete.

Quantity	Description
1	XOS Server - 1U HPE DL360 G10
2	Power cable
8	Micro BNC to BNC cable
1	Front bezel
1	Rack mounting kit for 1U HPE DL360 G10
1	USB to Ethernet adapter
1	Quick Start Guide

- 2. Remove the XOS and associated accessories from the box.
- 3. Mount the XOS in the rack.
 - The XOS can be mounted in a 19" rack.
 - Ensure that it is secured in the rack.
 - Maintain air flow around the XOS.
 - Do not place another device directly on the top of the XOS.

2. Cabling

Follow the diagram below to perform the XOS cabling.



Configure IP addresses 3.

1. Use the USB to Ethernet adapter to connect a laptop to the USB port on the front panel as shown below:



- 2. Power on the XOS.
- Connect the power cord to the power supply on the rear panel.
- Connect the cable to the power source and turn on the power(Front Panel Button).
- Wait for the XOS to complete the boot process(~6 min).

- 3. Power on the Laptop.
- In a web browser (Google Chrome), type the IP address (https://192.0.2.2) and press Enter.
- 4. Enter the following credentials and click Log in:
 - Login: xos
 - Password: **xos-user**
- 5. Select the Platform Configuration tile and click Launch.
- 6. Select the IP Settings tab and then the Ethernet Ports tab.
- 7. Enable Ports 5 and 7.
- 8. Select the IP Config tab (see next panel).
- 9. You can change the IP parameters for the following ports based on your IP plan:
 - Management 01 port (GbE01 Default: 192.168.1.200)
 - Output Data GbE03 port (Default: 192.168.2.200)
 - Input 1 Data GbE05 port (set IP address, subnet mask, Gateway)
 - Input 2 Data GbE07 port (set IP address, subnet mask, Gateway)
- 10. Click Save.
- 11. Remove the USB-Ethernet adapter from the front panel of the XOS. 12. Install the front bezel.



If you don't have a Management PC, keep the laptop connected until you complete the configuration (Step 8). Under the Platform Configurations tile -> IP Settings tab, enable Ports 5 and 7 for the Source Multicast IP inputs. Set the port physical IP addresses according to your network switch IP assignments. Click Save.

Ethernet ports	IP config
Designation	IP Address
Management 01	10.20.17.22
GbE 03	172.10.200
GbE 05	172.10.100
GbE 07	172.10.101

Revert Save

Contacting Harmonic: WM-CBAND-HELP@harmonicinc.com

Plat	form Configuration		
	RF SNMP System info	rmation OneCare Portal	*-
s Time			
s Time	Network Mask	Gateway	VLan
is Time		Gateway	VLan
s Time	Network Mask		
s Time	Network Mask 255.255.255.0	10.20.17.1	

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4. Setting the initial IP connection

1. In the Platform Configuration tile, select RF Tab > Tuner 1.

2. Click on the Upstream Demod button, and enter in the following IP details:

- Multicast IP Address 239.16.64.199.
- SSM IP Address 10.202.53.131.
- UDP Port 10000.
- Interface Set your interface for Gbe05.

Enabled	Parameters			
5	IP Input (Upstream Demod) :	2		
	Unicast :	D		
	Multicast IP Address :	239 16 64 199 1020253131 x + 55M 10000 GBE 05 (172 10 201 241) +		
	SSM IP Addresses :			
	UDP Port :			
	Interface :			
	Monitoring :			

addressing.

If a message appears in red, the connection is not yet established. Please check your System wiring, network switch setup and IP

Not connected to DMS

2.

7. Final steps for configuration

Update Output IP addresses

- 1. Each of the authorized programs appears on the output Multiplexer side of the Broadcast Output Page. Each program is assigned a default IP address and is muted.
- 2. Click on the edit button as shown below



- 3. Update Output multicast IP Address according to your IP plan.
- 4. Set the UDP port number according to your IP plan.
- 5. Select the IP Output data port (typically GbE03).
- 6. By default, the Primary IP output is muted. Clear the check box to unmute the ouput.
- 7. Click Update to commit your changes.

5. Waiting for upgrade and configuration

The XOS performs a software and configuration update after a successful connection to Control IP Multicast. This process is automatic and controlled by the DMS at Warner Media.



This initialization step can take few hours. Make sure the XOS remains powered on and connected to the IP network.

Once the software and configuration updates complete, do the following:

1. Select the Configure Broadcast tile and click Launch.



The display will be similar to the picture on the right:

- The message at the top of the user interface (UI) specifies DMS is controlling the XOS.

- The left side of the UI shows the Input Programs and the number of associated programs.

- The right side of the UI shows the Output Multicast programs.

8. Checking XOS outputs

- 1. Connect a professional-grade decoder to the XOS.
- 2. Connect the decoder to the HDMI port on the TV.
- 3. Power on the decoder and the TV.



- The presence of a Multiplexer from the ASI input is automatically detected by the decoder.
- The first program appears.

- To receive a Multiplexer via the data switch, enter the same IP address you entered in the XOS. Refer to the decoder documentation for additional information.

6. Output configurations

XOS	🚛 Configure	e Broadcast -	Controlled by DMS: Harmonic (ID 1, 238.39.231.150	:5010)	1.
Configuration	Programs Stat	istics		:	Settings
All sources			Il multiplexers (20)	+ Mu	ltiplexer
	SOURCES		MULTIPLEXERS		
IP Mezz_In			Prog_01 - AVC HD (1 prog.) (2000 IP: 238.39.208.9:1000	1	•
			Prog_02 - AVC HD (1 prog.) O UDP IP: 238.39.208.9:1000 * 35.0 Mbps	/	•
→ IP Mezz_in,	_004 (1 prog.)		Prog_03 - AVC HD (1 prog.) OUDP IP: 238.39.208.9:1000	1	
HP Mezz_In	_005 (1 prog.)		Prog_04 - AVC HD (1 prog.) (200) IP: 238.39.208.9:1000 * 35.0 Mbps	1	•
			Prog_05 - AVC HD (1 prog.) (UDP) IP: 238.39.208.9:1000 * 35.0 Mbps	/	
→ IP Mezz_In			Prog_06 - AVC HD (1 prog.) O UDP IP: 238.39.208.9:1000	1	•
→ IP Mezz_In	_009 (1 prog.)		Prog_07 - AVC HD (1 prog.) (2 UDP) IP: 238.39.208.9:1000 * 35.0 Mbps	1	•
Mezz_In			Prog_08 - AVC HD (1 prog.) @ UDP IP: 238.39.208.9:1000 ** 35.0 Mbps	1	•
			Prog_09 - AVC HD (1 prog.) @ UDP IP: 238.39.208.9:1000 ** 35.0 Mbps	/	•
→ IP Mezz_In	_013 (1 prog.)		Prog_10 - AVC HD (1 prog.) OUDP IP: 238.39.208.9:1000 ** 35.0 Mbps	/	•
A Allana la	014/1 8788)				_
	onic XOS - Version 1. gure Broadcast Appli	19.2.0.209 on Unknot cation Information	vn Release history - Keep Infor Licensed by Harmonic		

Note each Program is AVC HD @ ~35Mbps

9. Documentation

Harmonic Professional Services 7 a.m. to 4 p.m. Pacific Time, Monday through Friday Phone: (408) 490-6601 Email: WM-CBAND-HELP@harmonicinc.com

Your Authorized programs appear as shown below

The full User Guide and other documentation is available at: https://harmonicinc.com/documentation/warner-media/

ization support

WarnerMedia Hotline Phone: (212) 512-5666 or (404) 827-2458 Email: hotline@warnermedia.com

11. Deployment support

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