





Q-SYS Cinema Systems **Technical Notes** QSC DPA-Q and -Qn Series Power Amplifiers

Replacing a DPA4.x-Q or -Qn amplifier with a DPA-8KxQ or DPA-8KxQn model without a change in the Q-SYS configuration

The new DPA-8KxQ and DPA-8KxQn Series cinema power amplifiers require Q-SYS Designer Software v8.1.1 or higher. If you are using an earlier version, you will need to install the new software and update the system before you add any new amplifiers. Read the release notes for Q-SYS Designer Software v8.0.0 at http://q-syshelp.qschome.com/q-sys_8.0/#Release_Notes.htm and follow the procedure outlined in Migrating to Q-SYS 8.0 and Q-SYS Core Manager. When the system is fully migrated to v8.1.1 or higher, continue.

NOTE: Q-SYS Core Manager is a new feature introduced in Q-SYS Designer Software v8.0, and it combines core processor management tools previously found in Q-SYS Administrator and Q-SYS Configurator.

- 1. Replace the amplifier. Connectors used in the DPA4.xQ amplifiers are fully compatible with DPA-8KxQ and DPA-8KxQn Series amplifiers; no rewiring is necessary. Do not turn the new DPA-8KxQ or DPA-8KxQn amplifier yet.
- Enable the Cinema library in Q-SYS Designer Software (see https://qscprod.force.com/selfhelpportal/s/article/ How-To-Enable-the-Cinema-Library-in-Q-SYS-Designer-Software). Open Q-SYS Designer Software.
- 3. Assign an IP address in the range of 169.254.x.x with a subnet mask of 255.255.0.0 to the computer's network interface. (This matches the default network settings of the new amplifier or amplifiers.)
- 4. Connect the computer to the Q-SYS network.
- 5. Turn the amplifier on and let it boot up fully.



Name		famp			ID	ID	
Firmware	Version	RC/8.2.1910.0	20				
Design		(Idle)					
Design Up	ptime						
LAN A			MAC : Wired To : e4;f0:04:e8:			: 00:60:74:03:DF:48 8:1c:51 : on Gi1/0/7	
			Mode :	Auto		~	
	IP Address : 16	59.254.144.131	Net Mask :	255.255.0.0	Gateway :	0.0.0.0	
	Static Routes					+	
LAN B	LAN B (NO LINK)		Mode :	Auto			
	IP Address :		Net Mask :	•.•.•	Gateway :	•.•.•	
	Static Routes					+	

 In Q-SYS Designer Software, open Q-SYS Configurator (in the Tools menu). Find the new amplifier or amplifiers in the list.

If you have difficulty identifying an amplifier in the list, press the ID button on its front panel. This will blink the amplifier's entry in the Configurator list.

- Select the new amplifier and set its IP address and mask on LAN A (and if necessary, on LAN B as well). Set the Mode to Static, also.
- If the amplifier's new IP address is outside the 169.254.x.x range, change your computer's IP address and mask to one that is in the domain of the amplifier and the Q-LAN subnet. You should now see the core processor along with all the amplifiers and Q-SYS peripheral devices.



 Load the design from the core processor to the computer: select File > Load from Core and Connect. Before you make any changes to it, back up the design by saving it to storage. Press F7 to disconnect from the core processor.

File Edit View Tools Help Licensed Feature	res p	*		
	Properties			
	DPA-Q Amplifier Pr	DPA-Q Amplifier Properties		
Jesign Elements	Name	AMP1 Auditorium 1		
nventory 🕨 🔺 🚷 🕶 🗩 🚽	Is Network Redundant	No		
A Auditorium 1	Is Required	Yes		
	Dynamically Paired	No		
DPA8.4Qn : AMP I	Model	DPA8.4Qn		
DPA8.4Qn : AMP2	Channel Configuration	DPA 2K4Q		
SC-223 : CENTER-SPK	channel conliguration	DPA 2K4Qn DPA 4K4Q		
		DPA 4K4On		
V DCIO-H: DCIO		DPA 4K8Q		
SC-223 : LEFT-SPK		DPA 4K8Qn		
SR-1020 : LRS1-SPK		DPA 8K4Q		
5 R-1020 - / 551-50K		DPA 8K4Qn K		
SIC-1020 - 2331-3PK		DPA 8K8Q		
▶ ■ SR-1020 : LSS2-SPK		DPA 8K8Qn DPA4 20		
AD-S32T : MON		DPA4.30		
SC-223 : RIGHT-SPK		DPA4.5Q		
5 PT 50 1000 - 0051 50K		DPA8.4Q		
V w SK-1020 : KKS7-SPK		DPA8.4Qn		
SR-1020 : RSS1-SPK		DPA8.8Q		
▶ 🛋 SR-1020 : <i>RSS2-SPK</i>		DPA8.8Qn		
SB-7218 : SUB1-SPK				
▶ 🛋 SB-7218 : SUB2-SPK				
▷ 💽 TSC-47-G2 : TSC				
A MAIN				
Core 110f : SAMPLE-CORE				
Properties	Name	famp		
PA-O Amplifier Properties	Einner Version	BC/8.2 1010.020		

Design

LAN A

Design Uptime

Static Routes

10. With Q-SYS Designer Software in Design mode (i.e., not **Run** or **Emulate**), select the old amplifier in the design inventory. In the Properties pane, change the model to the correct one. The channel configuration and settings should stay the same.

ID

Wired To : e4:f0:04:e8:1c:51 : on Gi1/0/7

Gateway : 0.0.0.0

MAC : 00:60:74:03:DF:48

11. In the Properties pane, select and copy the name of the amplifier.

> Open Q-SYS Configurator and select the new amplifier. Paste the old amplifier's name into the Name field. Click **Update settings**. The amplifier will reboot.

12. After the amplifier finishes rebooting, press **F5** to save the design to the core processor and run it. The amplifier will update itself, as indicated by **Update** on its front panel display and on the design itself. This could take several minutes.

Mode : Auto

Net Mask : 255.255.0.0

13. The amplifier will mute when it finishes updating. Click **Mute** to unmute it. The system is ready for use.

(Idle)

IP Address : 169.254.144.131



AMP1

No

Yes

No

DPA8.4Qn

4 Channel

3 Channel, E I

ABCD

EF G H

Name

Is Required

Model

Is Network Redundant

Channel Configuration

Channel Configuration

Dynamically Paired

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