

TECHNICAL NOTE



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Ref: TN755

Raised by: MAA

Distributed to: as required

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DMI Dante64@96z

Updating DMI-Dante64@96z to be HYPERPORT Compatible

HYPERPORT Overview

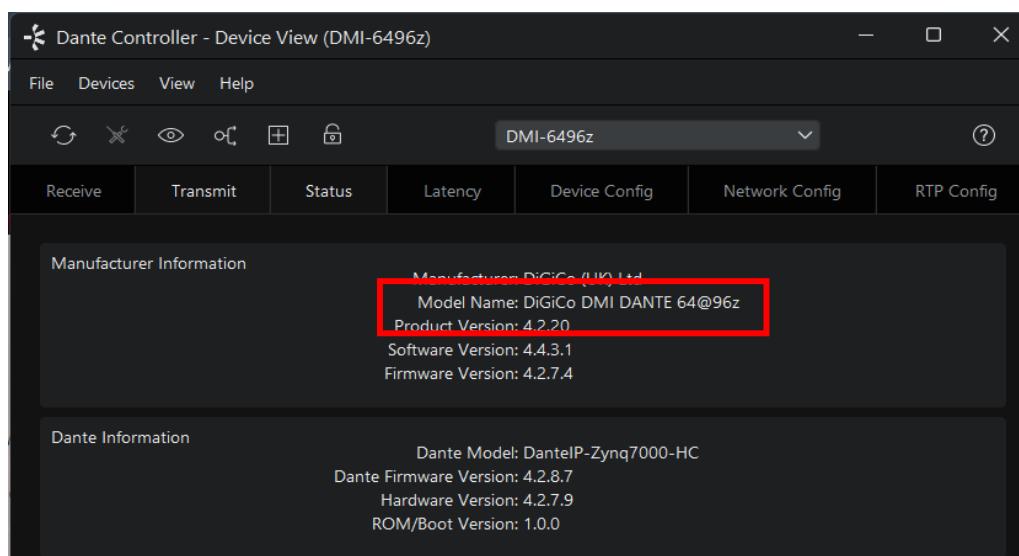
HYPERPORT is a low latency audio link between Fourier Audio transform.engines and compatible DiGiCo hardware.

This update will enable DMI Dante64@96z cards to work in both Dante and HYPERPORT mode.

Compatible Cards

This update is available for DMI Dante64@96z cards only. This refers to cards fitted with IP Zynq HC.

Cards can be identified by either looking at the colour of the module PCB (see **TN580 Rev2**) where black denotes IP Zynq, or by looking in Dante Controller. Select the DMI card and open the Status menu. Cards fitted with IP Zynq will have a Model Name ending in “z”.



Do not attempt to push these updates to DMI Dante64@96 fitted with Dante Summit HC modules.

Update Overview

The DMI Dante64@96z has 3 firmwares that require updating to make the card compatible with HYPERPORT. It is important that all 3 firmwares are updated. Failure to update all 3 parts of the card will result in the card being unable to pass audio.

The 3 firmwares to update are:

- DMI Baseboard FPGA (digico_dmi_dante6496z_fpga.bit)
- DMI Baseboard firmware (digico_dmi_dante6496z.bin)
- IP Zynq HC Linux (DiGiCo DMI Dante 64@96z 4.2.20.upd)

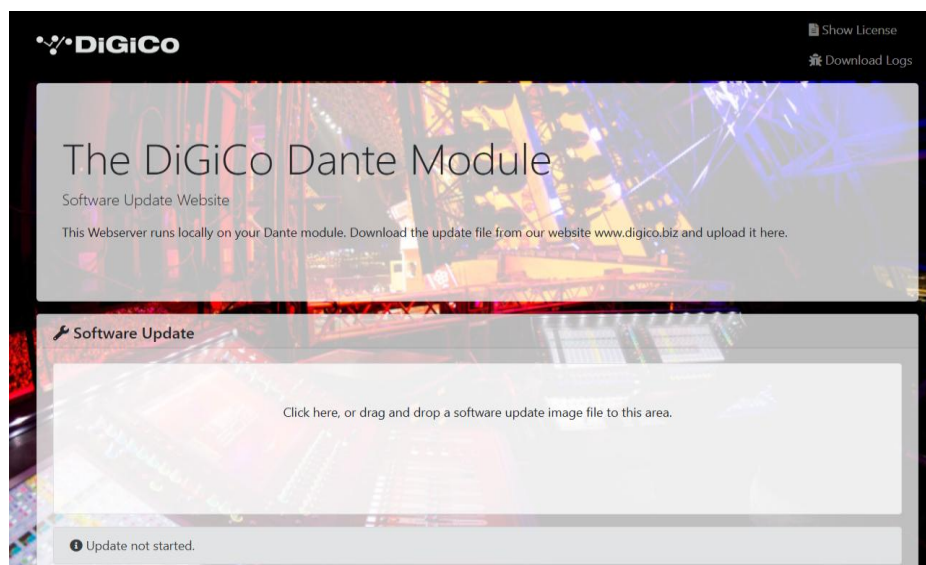
Before updating, disconnect all external devices from the DMI card.

Updating the IP Zynq HC Linux

The IP Zynq HC Linux version must be updated to v4.2.20. This requires the firmware file named **DiGiCo DMI Dante 64@96z 4.2.20.upd** which will be available for download from the Support section of the DiGiCo website.

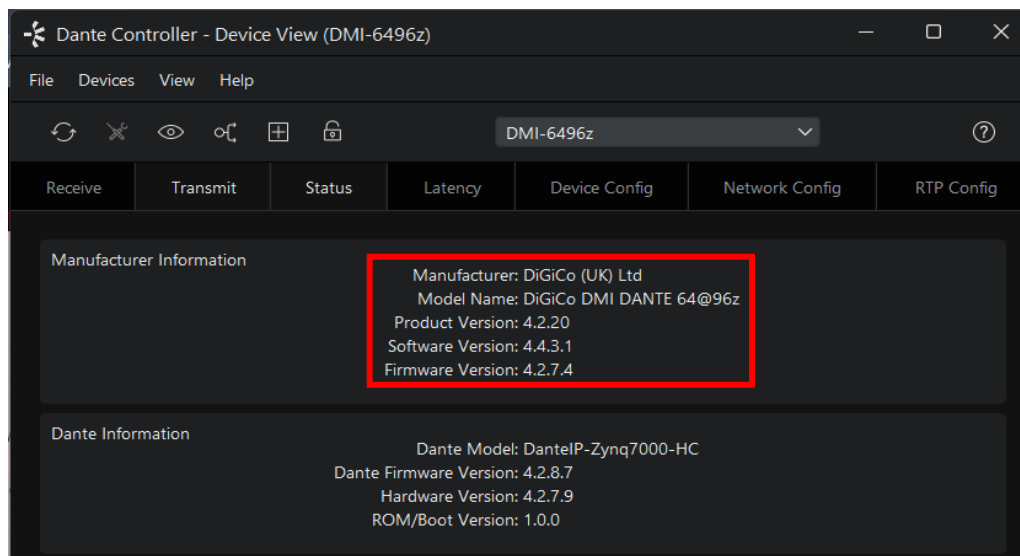
The card must be inserted into either an SD/Quantum console or an Orange Box and powered on.

1. Connect a computer to the Dante Network and ensure the computer's IP and Subnet are in the same range as the Dante IP address of the DMI card.
2. Look in Dante Controller and locate the IP address of the DMI card.
3. Place the firmware update file titled **DiGiCo DMI Dante 64@96z 4.2.20.upd** in a known location on the computer.
4. Open a web browser and type the IP address of the DMI card's Dante module into the browser.
5. This should open the page below in the browser.



6. Click in the update space to open a file browser and select the update file, or drag the update file from its location and drop it into the box in the web browser page.
7. The firmware update should begin automatically.
8. Please note there is no update complete notice. Once the screen reverts to the view above, the process is complete. If the screen does not revert to the view above but continues to display a “Restarting” message, please wait 2 minutes then shut down and repower the console that the DMI Card is fitted to.

Once the update has completed successfully, it will show the Product Version as **4.2.20** in Dante Controller.



Once the Linux has been updated, the baseboard must be updated. Please jump to the correct section depending on whether the card is fitted to an SD12/Quantum console or an Orange Box.

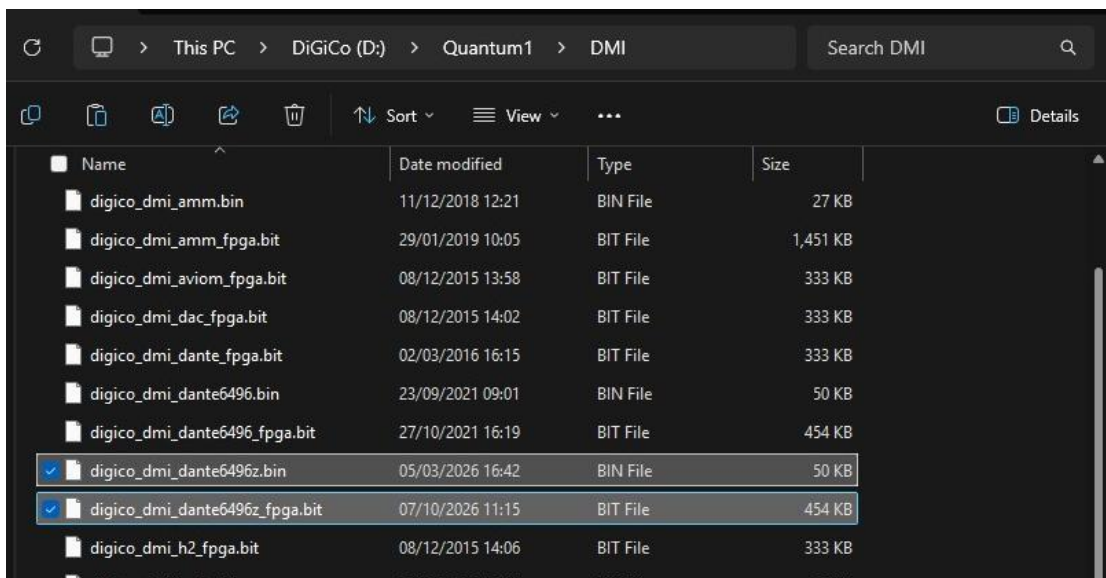
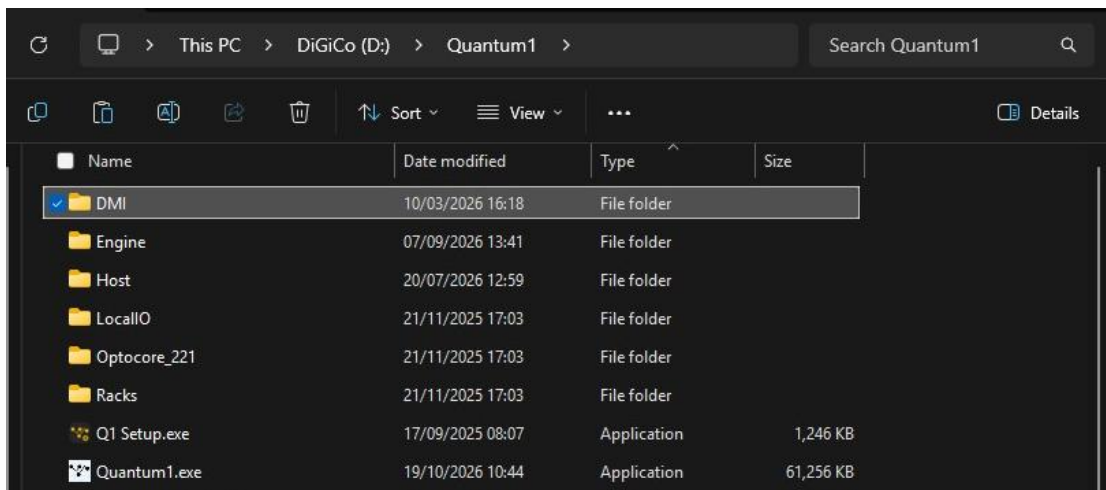
Updating the DMI Baseboard in SD12 and Quantum Consoles

There are 2 firmwares on the baseboard that require an update. These are available for download from the Support section of the DiGiCo Website. These are titled **digico_dmi_dante6496z.bin** and **digico_dmi_dante6496z_fpga.bit**.

1. Place both firmware files onto a USB stick and insert this into the console.
2. If using a Modern Quantum console, **Quit to Home** and open the **File Browser**.

If using an SD12, Quantum5 or Quantum7 console, **Quit to Windows** and open the **File Browser**.

3. Navigate to the USB stick and copy the 2 files.
4. Navigate to **DiGiCo (D:) > QuantumX > DMI**. Paste the two files here. There will be a prompt confirming if these should replace existing files. Select **OK**.
Note that this location will be **DiGiCo (D:) > SD12 > DMI** on an SD12 console.



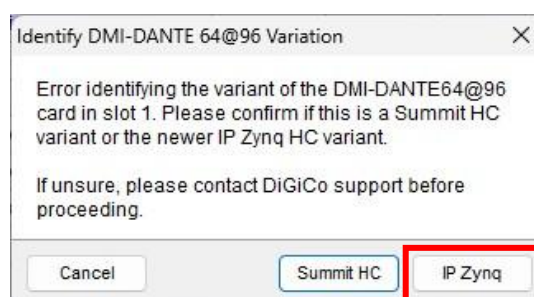
- Open **Quantum Upgrade/Upgrade Hardware**.
- A green tick will be displayed next to all files that require updating. Select **update** for the Firmware. Once the Firmware update is complete, select **update** for the FPGA.

code versions						
device	description	file	running	available	required	update
Engine						
Engine	SHARC 1	SHARC1.bin	03/12/2025	03/12/2025		update
	SHARC 2	SHARC2.bin	24/04/2024	24/04/2024		update
	SHARC 3	SHARC3.bin	08/01/2026	08/01/2026		update
	FPGA 1	FPGA1.bit	26/02/2026	26/02/2026		update
	FPGA 2	FPGA2.bit	20/08/2025	20/08/2025		update
	FPGA 3	FPGA3.bit	20/08/2025	20/08/2025		update
Host						
COM3	Host Interface	enghost.dipkg	1.17.0	1.17.0		update
	USB Audio	xmos_mk2.bin	0.1.5	0.1.5		update
Surface						
COM5	Q1 Surface	Q1Worksurface.bin	0.22	0.22		update
LocalIO COM4	Q1 Local IO	Q1LocalIO.bin	0.23	0.23		update
Local Dante	Q1 Local Dante	cap1.bin, ipcore-4.2.7.4_arm_Linux		OK		update
DMI cards						
DMI 1	Firmware	digico_dmi_dante6496z.bin	105	107	✓	update
	FPGA	digico_dmi_dante6496z_fpga.bit	27/02/2023	07/10/2026	✓	update
DMI 2	Firmware	digico_dmi2.bin				

In the event of an update failing, the upgrade application will show (?) after the file name.

DMI cards						
DMI 1	Firmware	digico_dmi_dante6496z.bin (?)	107	104		update
	FPGA	digico_dmi_dante6496z_fpga.bit (?)	00/00/0000	27/10/2021		update
DMI 2	Firmware	digico_dmi2.bin				
	FPGA					

Select **update** and a panel will open asking for confirmation of what variant of DMI Dante64@96 is fitted. Select **IP Zynq** and the update will continue.



- Once both upgrades are complete, please close **Quantum Upgrade/Upgrade Hardware**.

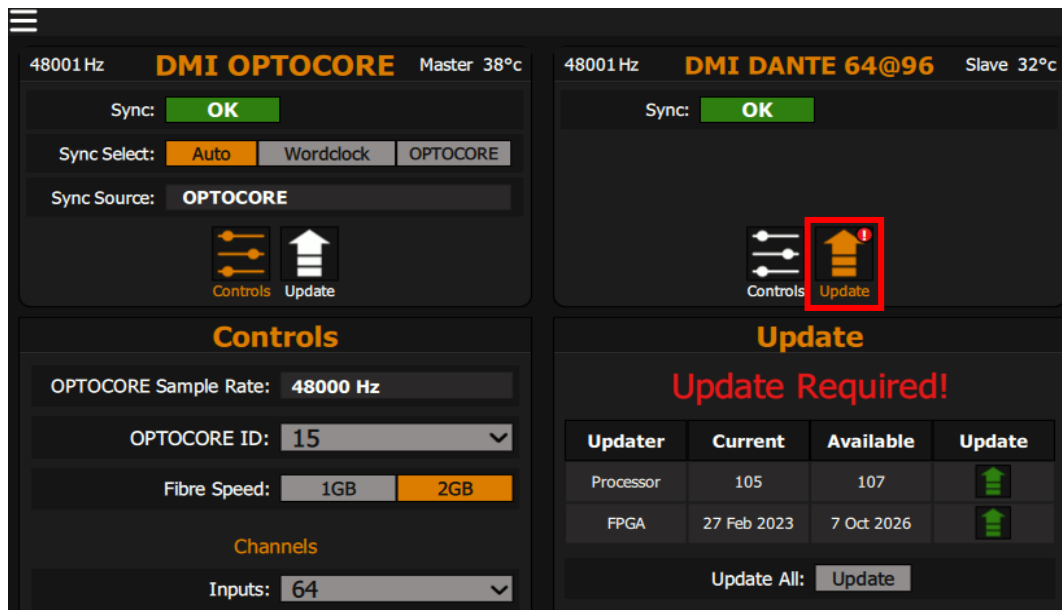
To confirm that the card is fully updated, navigate to **Master Screen > System > Diagnostics** and open the **Audio I/O** tab. The card should show in the relevant DMI slot and show **DANTE64 (v107 07/10/2026 SPID: v3.2), 33°C, 48000Hz**.

Diagnostics																							
Console				Engine				Audio I/O				Optocore				Queues				Logging			
DMI 1: OK				DANTE64 (v107 07/10/2026 SPID: v3.2), 33°C, 48000Hz												DMI 2: 							
MAUI detected: 00000001				input cards								output cards											
port name		id	ok	ch	code	1	2	3	4	5	6	7	8	1	2	3	4	5					
1:Rack 1		m1		57																			

Updating the DMI Baseboard in Orange Box

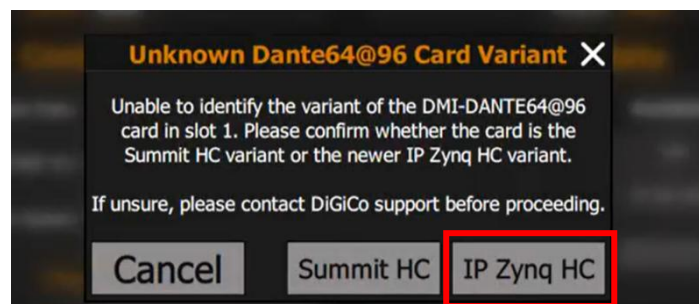
There are two firmwares on the baseboard that require an update. These files are embedded into **Orange Box Controller v3.0.0.117** which is available for download from the Support section of the DiGiCo Website. These are titled **digico_dmi_dante6496z.bin** and **digico_dmi_dante6496z_fpga.bit**.

1. Connect a computer to the Orange Box USB port and open Orange Box Controller v3.0.0.117.
2. On the DMI Dante64@96, select the **Update** button. This will show the available updates for the DMI card.



3. Select the update button for the **Processor**. Once the firmware update is complete, select the update button for the **FPGA**.

In the event of an update failing, Orange Box Controller may not be able to identify the card variant. Selecting **Update** will open the window below. Select the **IP Zynq HC** and the update will continue.



Once fully updated, the card will show the Processor version as **107** and the FPGA version as **7 Oct 2026**. The Linux version can be confirmed in Dante Controller.

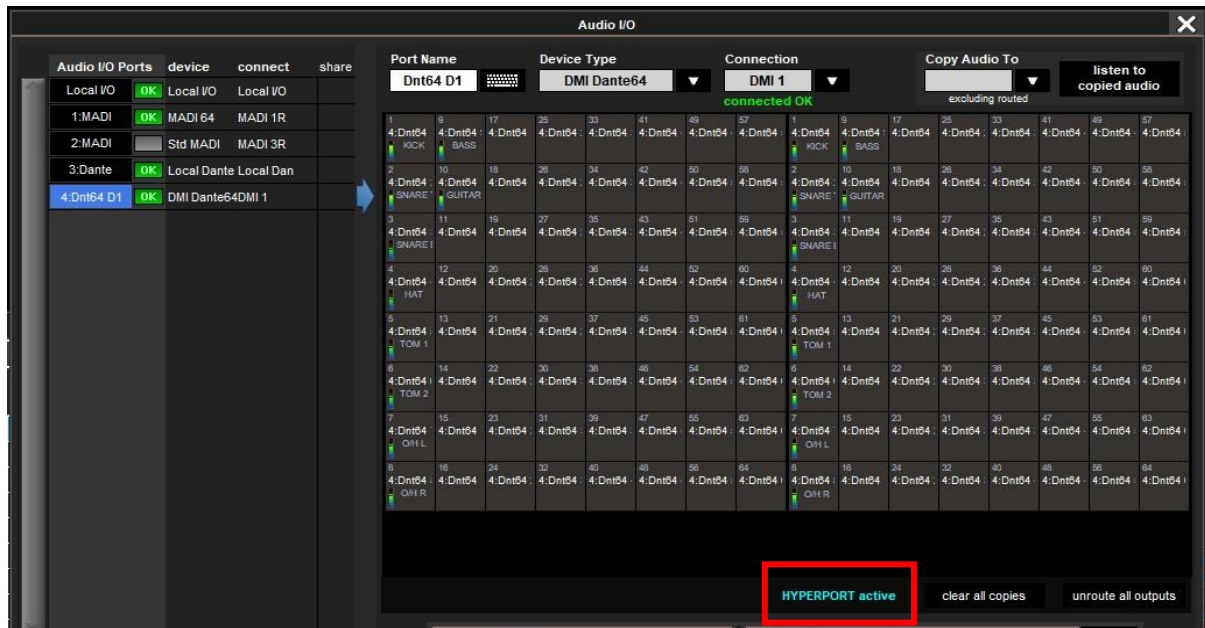
Updater	Current	Available	Update
Processor	107	107	✓
FPGA	7 Oct 2026	7 Oct 2026	✓

Enabling HYPERPORT

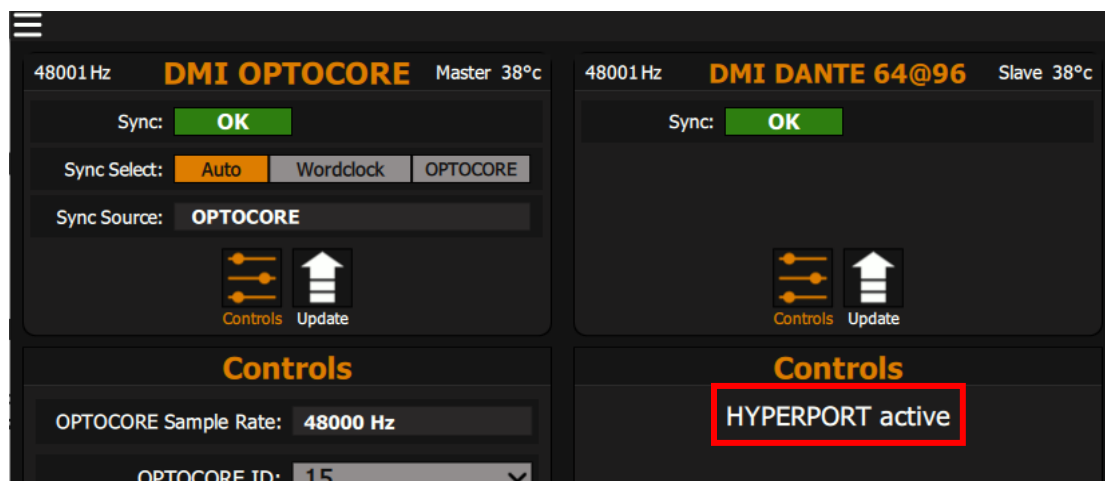
To enable HYPERPORT when fitted to a DiGiCo SD12 or Quantum console, the console must be running v22 application or later. The connected transform.engine must be running v1.7 or later.

The DMI Dante64@96 will by default be in Dante mode, exhibiting all the same behaviour as before the update. When a transform.engine is connected and attempts to talk to the DMI in HYPERPORT mode, the DMI will automatically switch to HYPERPORT mode. When the HYPERPORT connection to the transform.engine is lost, the DMI will revert to Dante mode.

When a DMI card fitted to a console is in HYPERPORT mode, it can be seen in **Master Screen > Setup > Audio I/O**.



When a DMI card fitted to the right-hand side of an Orange Box is in HYPERPORT mode, it can be seen under the **Controls** section.



For more information on HYPERPORT, visit the following links:

<https://docs.fourieraudio.com/manual/installation/hyperport/>

<https://docs.fourieraudio.com/manual/connections/hyperport/>