TECHNICAL NOTE

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Ref: TN654
Raised by: ARD
Distributed to: as required

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SD11 Fitting Fourier Interface Option Card (TN654)

Important Note: These instructions are a guide to fitting the Fourier Interface Option Card to these mixers. This option is normally supplied factory fitted and is not considered a user-installed option. This note is for the use of factory-approved technicians only.

Read the instructions carefully before starting and leave yourself enough time to perform the work.

Before proceeding, first check the version of software and computer hardware in use.

Confirm the version of software running on the mixer on the bottom of SD11 application Master Screen.

If the existing mixer system is V760 (or below) and it is not intended to purchase Core 2 be aware V760 does not support current versions of Fourier and the option should NOT be fitted. Contact local support for advice.

Console is required to run v2126 to be able to support the Fourier Interface Card.

The console should be fitted with 8GB drive and 1GB RAM, which can be ordered with the Fourier Interface Update Kit.

Generally, mixers built and supplied after 2013 are fitted with 8GB drive and 1GB RAM.

Ensure you have taken appropriate anti-static precautions.

Avoid working in areas with synthetic floor coverings or carpet, especially polypropylene material, as opposed to natural materials such as solid wood or wool. Ideally work at a proper workbench with ESD safe features, such as a metal frame. Before work, try to discharge yourself into a mains earth fitment, water pipe etc. This is important as internal parts of the mixer are static sensitive and even if any damage is not immediately obvious, so called "latent damage" can occur, where a device may be partially degraded yet continue to perform its intended function. However, the operating life of the device may be reduced dramatically, leading to premature failure. If you are unsure about any part of the upgrade procedure, seek advice before proceeding.

You will need to have the following tools to hand:

- Pozi screwdriver PZ1
- 2mm Hexagonal driver (Allen key)
- 4mm Hexagonal driver (Allen Key)

You should also have:

- A Fourier transform.engine or another Dante audio device for post installation testing.

Before you start:

Shut down the console, switch it off and remove the power leads.

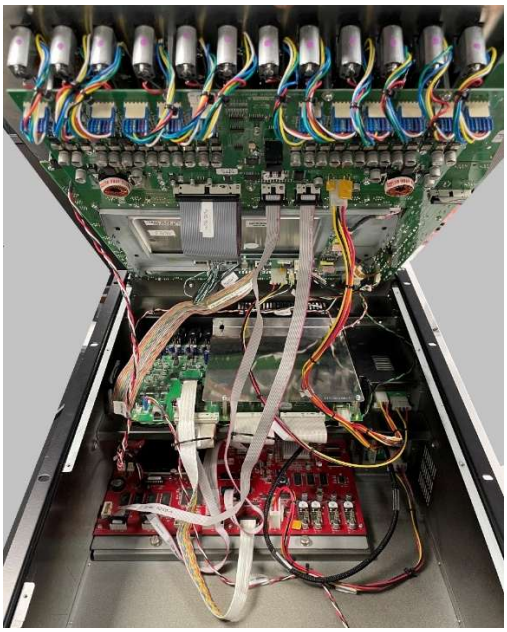
If the console was previously fitted with a Waves card, please consult TN312 to remove it.

Procedure:

SD11 Access console interior:

Lift the upper surface section by first removing the end cheeks and rear and front rest, if fitted; these are secured by 4 hex drive (4mm AF) bolts.

Next, remove the 12 hex drive (2mm AF) screws that hold the upper surface panel in place. It is important to use a good-quality, unworn (preferably brand-new) tool for these screws. Lift the panel carefully and prop or hold securely. See below for the general internal arrangement.

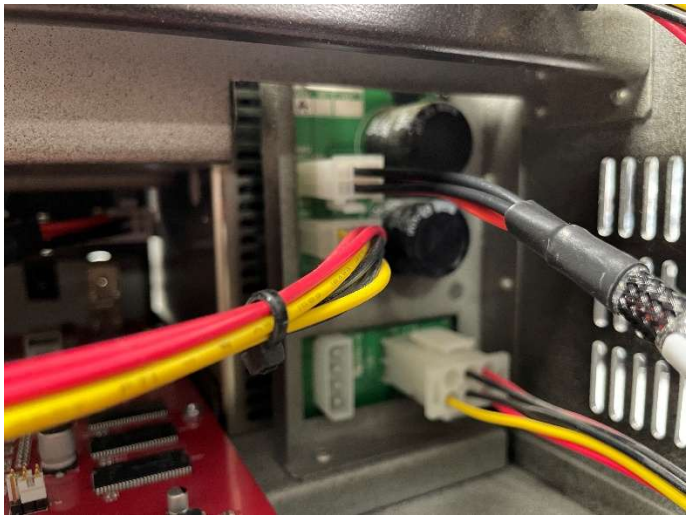


Connect the multi coloured ribbon cable and the 6-pin power cable provided in the kit to the Fourier Interface PCB. Do this BEFORE attempting to fit the PCB to the chassis.

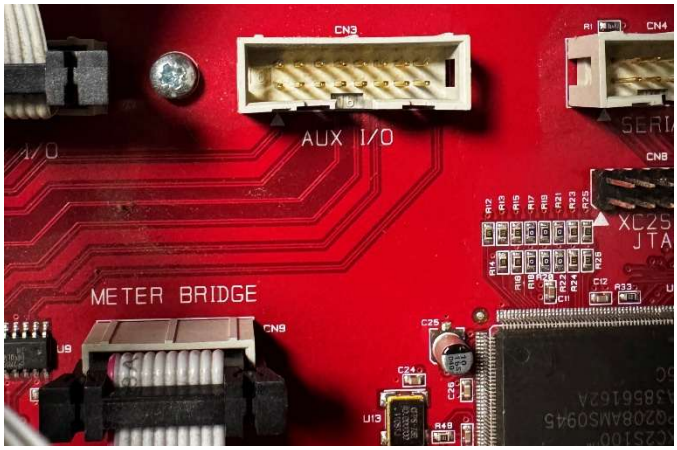
Before fitting the Fourier interface module, remove all four screws on the back holding the blanking plate or waves card (if previously fitted) and place the sticker provided with the kit (see picture below).

Fit the Fourier Interface module to the rear panel, using the screws provided.

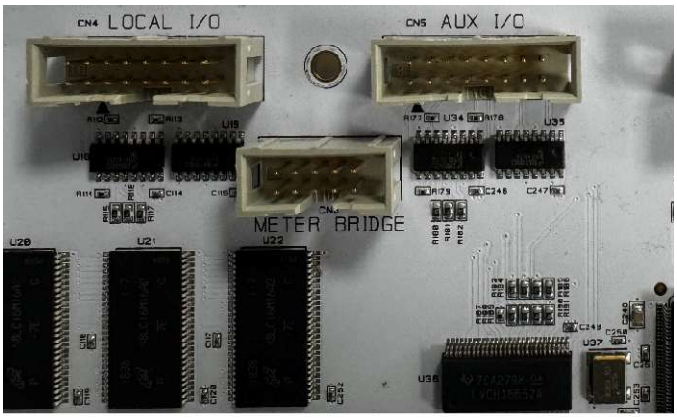
Fit the power cable from the Fouier PCB to the spare 6-pin socket on the rear of the PSU.



Connect the ribbon cable from the Fourier Interface PCB to the engine board(CN3). The picture shows the older red PCB.



Later mixers use the Mark 2 Black (or White) PCB. Use the same connector (marked CN5 Aux I/O)



Reassemble the upper surface section to the console.

Test the mixer functions

On completion of the work, connect the mixer to power and carry out a functional test to confirm that the display and controls operate correctly before refitting the panels.

After the test, shut down the mixer and switch off the power.

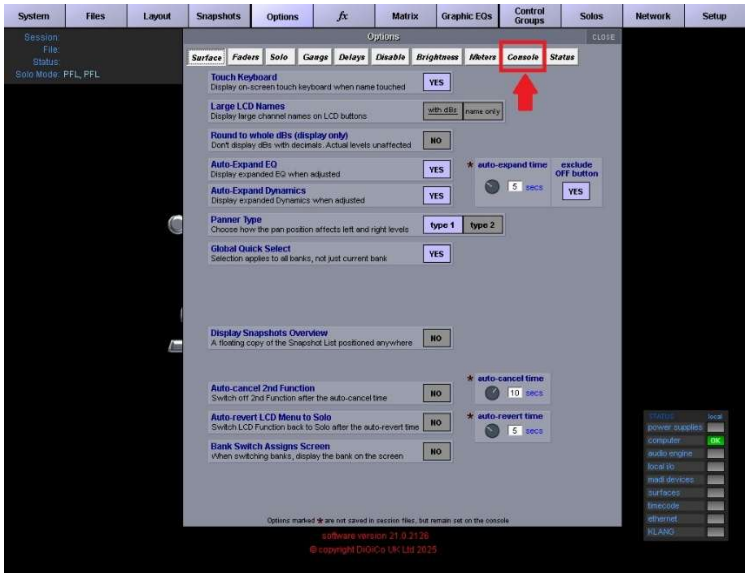
Secure the panel with screws.

Software Setup Notes

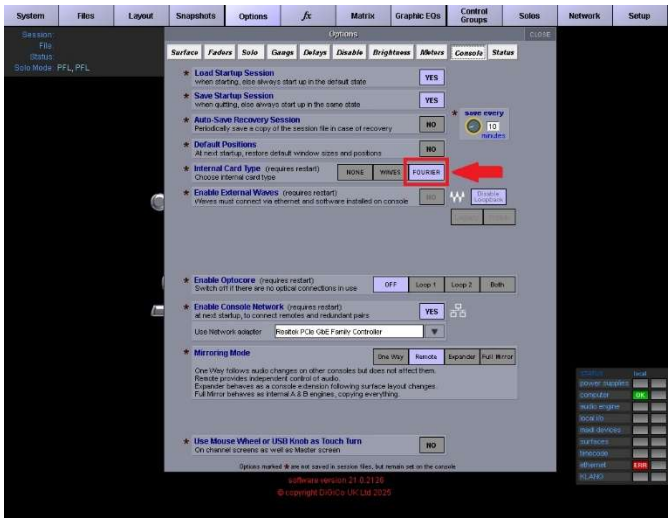
To enable Fourier Card:

1.On main screen click on ‘Options’.

2.Once Options window is open click and select on ‘Console’.



3.Click on ‘Fourier’ to enable.



4.Close and restart the console.

5.On the next boot, verify the Fourier port is enabled on the Audio I/O.

Fourier Interface Card Specifications

• The Fourier Interface Card provides 64 channels in and 64 channels out at 48kHz or 96kHz to the Dante network.

• The card does not feature Sample Rate Conversion so make sure that the console sample rate and the Dante sample rate of the card (set in Dante controller) match or it could end up with distortion/clicking/no audio.

• The Fourier Interface card cannot be used to control socket parameters (phantom power and gain) of DQ Racks or A168D/A164D Racks.