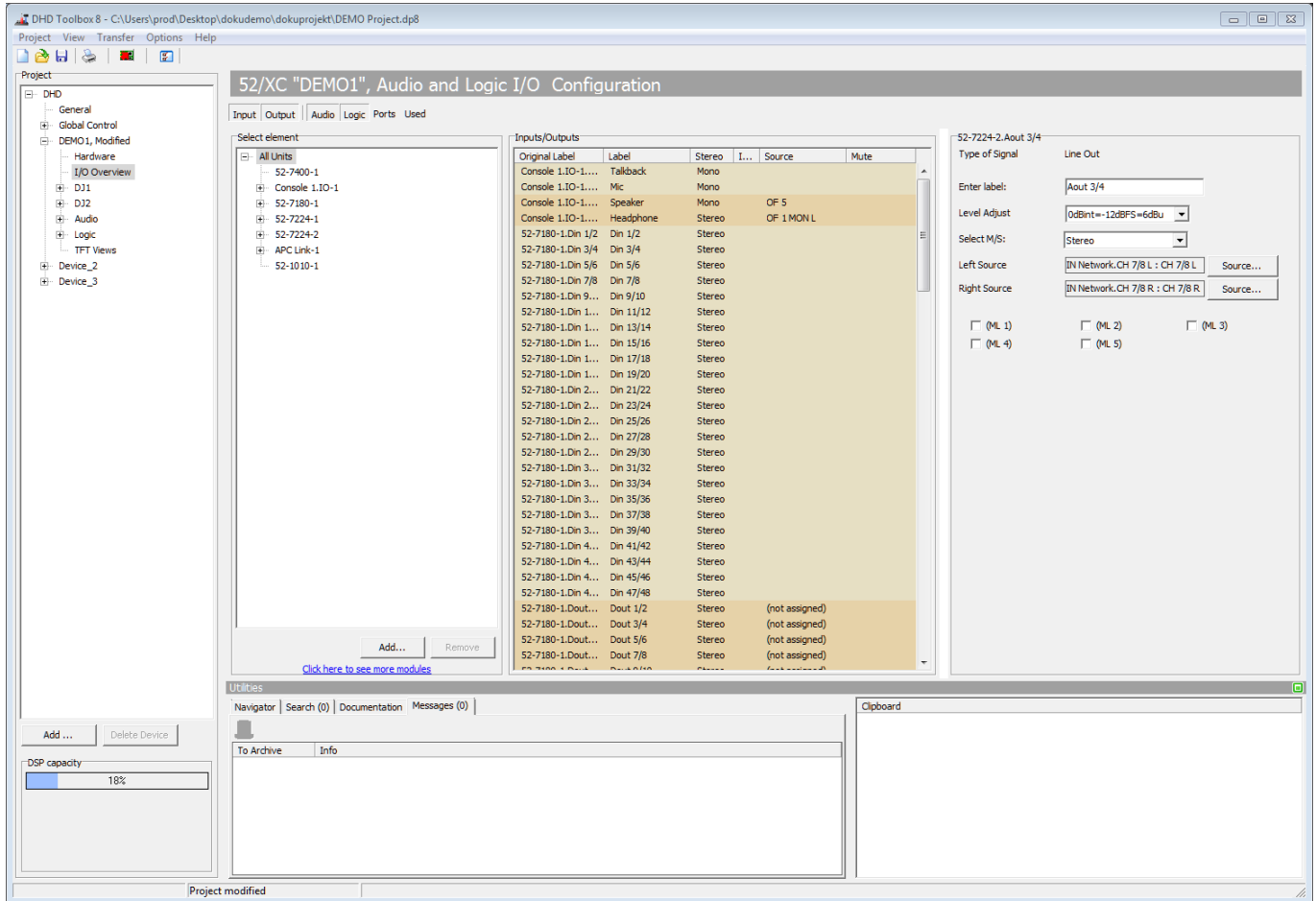


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I/O Overview

In the **I/O Overview** section, you can add, remove and configure all inputs and outputs (Audio and Logic), that belong to your system. You can configure I/O boxes, sub-modules and device interlinks.



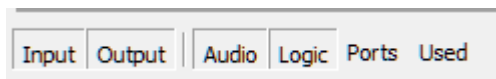
I/O Overview page

To add an I/O unit to the system, click **Add**, a list with different I/O units is shown. Select your I/O unit from the list, now it is available in the **Select element** area.

Here, you can also select device interlinks and Ember+ I/O connections.

To delete a selected I/O unit from the list, click **Remove**.

If an I/O unit is selected in the **Select element** area, all corresponding audio inputs and outputs are shown in the **Inputs/Outputs** area.



I/O Filter Buttons

Above this list you can see a set of buttons, which allows you to filter the list for **Input**, **Output**, **Audio**, **Logic** (GPIO ports), **Ports** (to show all ports on an I/O label module) and **Used** (only shows all used ports).

To show your required elements, click on the the corresponding button. To hide elements you need to deactivate the corresponding button.

Options

List Columns

Columns in the **Inputs/Outputs** area:

Column	Description
Original Label	This column shows the internal label which is generated in that scheme: <module type>.<port label>
Label	Individual Label, double-click on the label and change the current name.
Stereo	Indicates if the signal is mono or stereo.
Info	Indicates type of Logic Triggering for GPO ports (ON/OFF/Pulse on activate/Pulse on deactivate)
Source	Shows the assigned audio/logic source for output ports.
Mute	Shows, that a Mute Logic is assigned to an output. (*-Symbol)

Unit Options

If you select a module in the **select element** section, the **Unit Option** area on the right hand side will show general information and options.

option	description
Type / Description	Additional information on module type.
Module Name	Enter a distinctive name for the selected input.
Mounting Location	Select the mounting Location of the module as in Mounting Locations
Operation Mode	Select operation mode of the module. Depending on module type you can select e.g. number of channels (MADI Modules) or headroom options (Multi I/O).
Level Adjustments (D/A)	Depending on module type, you may adjust levels of all digital or analog Inputs/Outputs of the module here.

<module>.<port> Audio Inputs

option	description
Enter Label	Enter a distinctive name for the selected input.
Level Adjust	Adjust leveling / headroom for each input from the corresponding drop-down menu. The shown values always refer to the devices internal default level of 0 dBint.
Select M/S	Select, if the signal is mono or stereo.
Sample Rate Converter	Select from the drop down menu, if the sample rate converter is activated (On) or deactivated (Off) for this input.

Adding to Mixer

Select Add to Mixer 1 check box to create a fader channel in **Mixer 1** with that signal as audio source. Following options will be shown:

option	description
Fader Start Level	Select a level, which sets the fader start logic to on.
On Start	The faderstart is only activated and deactivated by pushing the On/Off key, not by moving the fader.
Auto Off	By closing the fader, the channel is automatically switched OFF (ON key is deactivated).
Clean Feed	Select this check box to create a corresponding clean feed bus for this signal.
Timer Reset	If this check box is selected, opening this fader will reset and start the Auto timer of the stopwatch.
Channel On Logic	Select a Logic Function from the Logic Sources window, which sets the channel to ON. You can choose, for example a GPI to open a channel.
Channel Off Logic	Select a Logic Function from the Logic Sources window, which sets the channel to OFF. You can choose, for example a GPI to close a channel.
Mute Condition Logic	Click Source to select a Logic source, that mutes the input, if the logic source becomes true.
Analog Gain	Default value for analog gain. Note Some analogue I/O cards do not provide all gain values
P48V	Turn Phantom Power On/Off by default

<module>.<port> Audio Outputs

option	description
Type of Signal	Shows the general signal type of the port.
Enter Label	Enter a distinctive name for the selected output.
Level Adjust	Adjust leveling / headroom for each input from the corresponding drop-down menu. The shown values always refer to the devices internal default level of 0 dBint.
Select M/S	Chose, if the signal is mono or stereo.
Sample Rate Converter	Select from the drop down menu, if the sample rate converter is activated (On) or deactivated (Off) for this output.
Dithering	If you connect devices with a lower resolution of the digital signals to a DHD device, here you can define how the internal audio signal is to be dithered before leaving the digital output. With this function, the quality of the output signal can be improved. You can select 16 bit, 20 bit, or Off (no dithering, preset value).
Digital Out Mode	This option can adopt the values Pro (default value) or Consumer. See the parameter details below - Digital Outputs - Pro and Consumer values Info Especially for consumer and semiprofessional DAT or MiniDisc devices, you should use the Consumer option, because they might not synchronise properly in which case they display No Lock, for example.
Source	You can assign an audio signal to a mono output. Click the Source button, the Audio sources window opens. Select an audio source, and click Assign.
Left Source	You can assign an audio signal to the left channel of the selected output. Click the Source button, the Audio sources window opens. Select an audio source, and click Assign.
Right Source	You can assign an audio signal to the right channel of the selected output. Click the Source button, the Audio sources window opens. Select an audio source, and click Assign.
Direct ACI	Select this check box to enable volume control for the headphones via a potentiometer which is connected to an ACI. This option is only available for headphone outputs. The ACI on D-sub port 1 is assigned to headphone 1 (HP1) and the ACI on D-sub port 2 is assigned to headphone 2 (HP2).
Mute Logic 1	Select this check box to mute this output, if a fader with one of the inputs with selected Mute Logic 1 check box is opened.
Mute Logic 2	Select this check box to mute this output, if a fader with one of the inputs with selected Mute Logic 2 check box is opened.

option	description
Mute Logic 3	Select this check box to mute this output, if a fader with one of the inputs with selected Mute Logic 3 check box is opened.
Mute Logic 4	Select this check box to mute this output, if a fader with one of the inputs with selected Mute Logic 4 check box is opened.
Mute Logic 5	Select this check box to mute this output, if a fader with one of the inputs with selected Mute Logic 5 check box is opened.

Digital Outputs - Pro and Consumer values

On digital Outputs you can choose between **Pro** (default value) or **Consumer**. The following parameters are changed accordingly:

Mode	Pro (Default)	Consumer
Terminator	110 Ohm	75 Ohm
Output voltage	5 V	0,5 V
Data stream	Professional Bit set	Consumer Bit set

IOModule-X.<port> General Purpose Inputs (GPI)

option	description
Type of Signal	Shows the general signal type of the port.
Enter Label	Enter a distinctive name for the selected input.

IOModule-X.<port> General Purpose Inputs (GPO)

option	description
Type of Signal	Shows the general signal type of the port.
Enter Label	Enter a distinctive name for the selected input.
Select Source	You can assign a logic sources to the selected GPO. Click the Source button, the Logic sources window opens. Select a logic source, and click Assign .

Device Interlink

To exchange audio signals directly between two 52/XC, 52/XC2, 52/XD, 52/XD2, 52/XS, 52/XS2 cores, you can connect them directly by a shielded CAT5 or CAT6 cable on an APC port on each DSP core.



Important

To use the DeviceLink, each DSP Core requires a 52-8582 XC/XD/XS Core Audio Network license. See [licensing](#) page for general information on licensing.

Each APC Interlink connection can send and receive 48 audio channels at the same time. This connection does not transmit any control signals.

Each GA Interlink supports from 32 up to 512 channels. (Set number of needed channels in **Operation Mode**)

Page Title: I/O Overview

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