

Mixing Console Bundle Information



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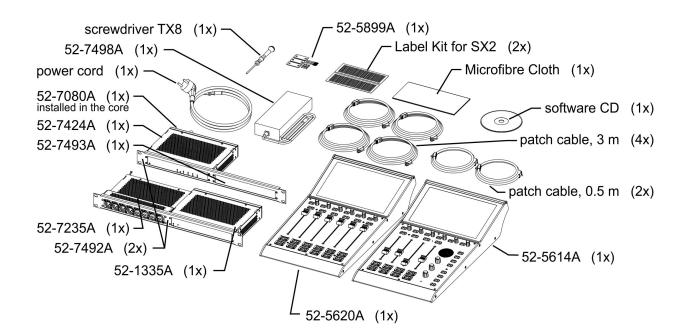
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Package Contents

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52-1989A - SX2-Bundle

Package Contents

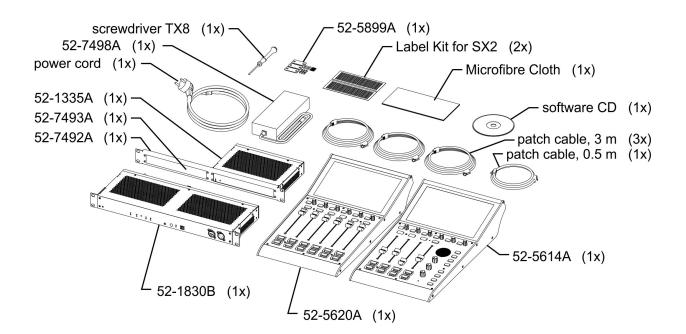


part nr.	name	qty.
52-5614A	SX2 Central Module	1x
52-5620A	SX2 Fader Module	1x
52-7424A	XC2 Core	1x
52-1335A	XS Multi I/O Box	1x
52-7235A	XC Mic/Headphone Module	1x
52-7080A	Dante IP Audio Interface (built in XC2 Core)	1x
52-7492A	XC 19" Adapterpanel flat	2x
52-7493A	XC blank panel	1x
52-7498A	XC Power Supply 48V/150W	1x
52-5899A	Console Chaining Kit	1x
-	Power Cord	1x
-	Patch cable, CAT5, 0.5m	2x
-	Patch cable, CAT5, 3m	4x
-	Microfibe Cloth	1x
-	Screwdriver Torx TX8	1x
_	Label Kit for SX2	2x

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52-1998A - SX2-Bundle

Package Contents

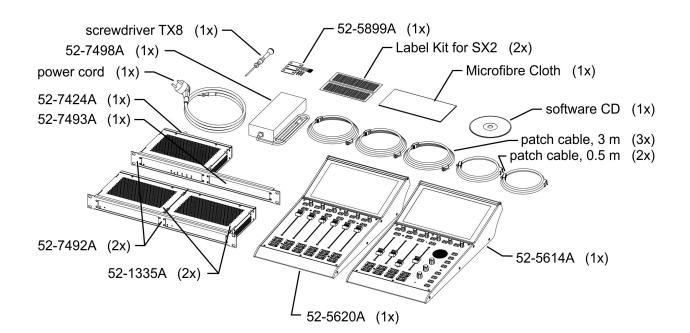


part nr.	name	qty.
52-5614A	SX2 Central Module	1x
52-5620A	SX2 Fader Module	1x
52-1830A	XS2 I/O Core	1x
52-1335A	XS Multi I/O Box	1x
52-7492A	XC 19" Adapterpanel flat	2x
52-7493A	XC blank panel	1x
52-7498A	XC Power Supply 48V/150W	1x
52-5899A	Console Chaining Kit	1x
-	Power Cord	1x
-	Patch cable, CAT5, 0.5m	1x
-	Patch cable, CAT5, 3m	Зx
-	Microfibe Cloth	1x
-	Screwdriver Torx TX8	1x
_	Label Kit for SX2	2x

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52-1999A - SX2-Bundle

Package Contents

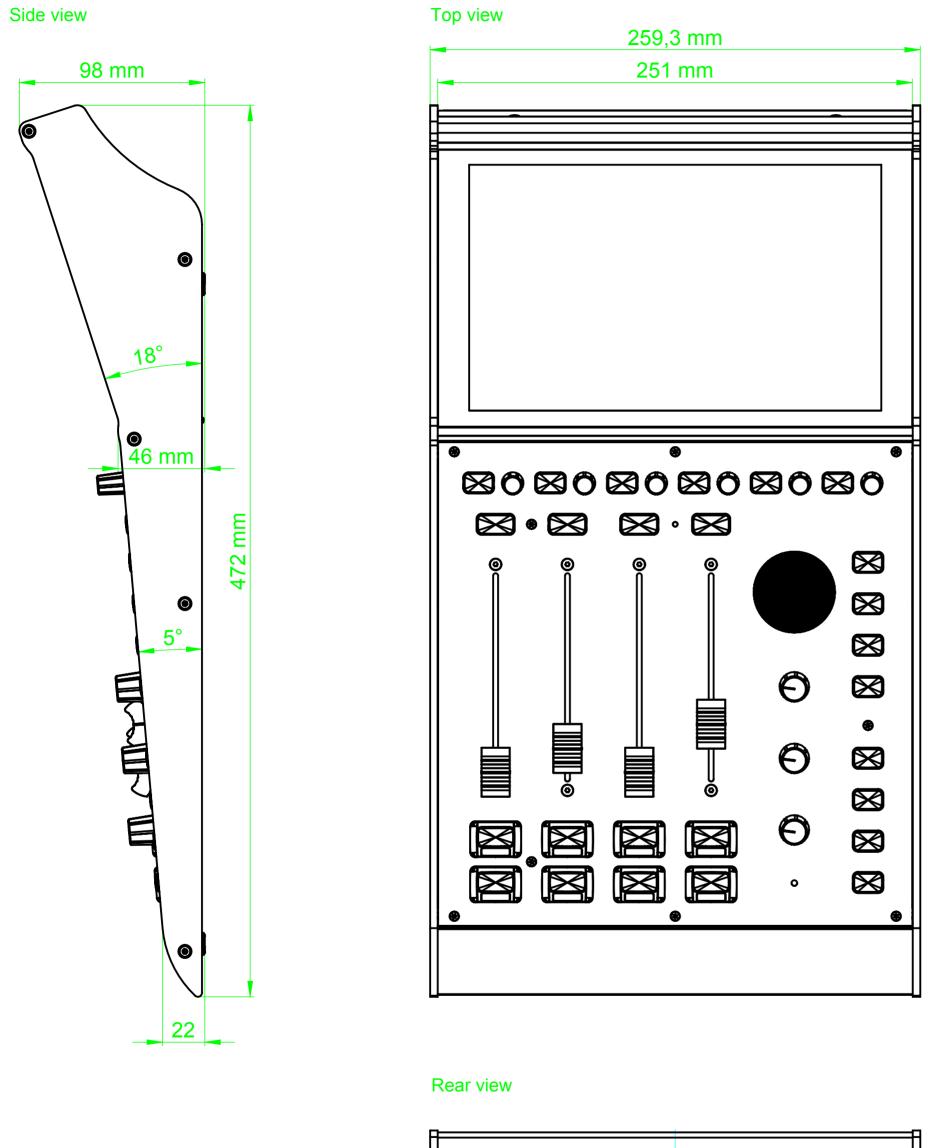


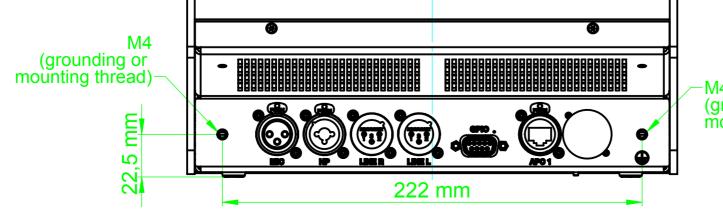
part nr.	name	qty.
52-5614A	SX2 Central Module	1x
52-5620A	SX2 Fader Module	1x
52-7424A	XC2 Core	1x
52-1335A	XS Multi I/O Box	2x
52-7492A	XC 19" Adapterpanel flat	2x
52-7493A	XC blank panel	1x
52-7498A	XC Power Supply 48V/150W	1x
52-5899A	Console Chaining Kit	1x
_	Power Cord	1x
-	Patch cable, CAT5, 0.5m	2x
-	Patch cable, CAT5, 3m	Зx
-	Microfibe Cloth	1x
-	Screwdriver Torx TX8	1x
_	Label Kit for SX2	2x

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Control Module Dimensions

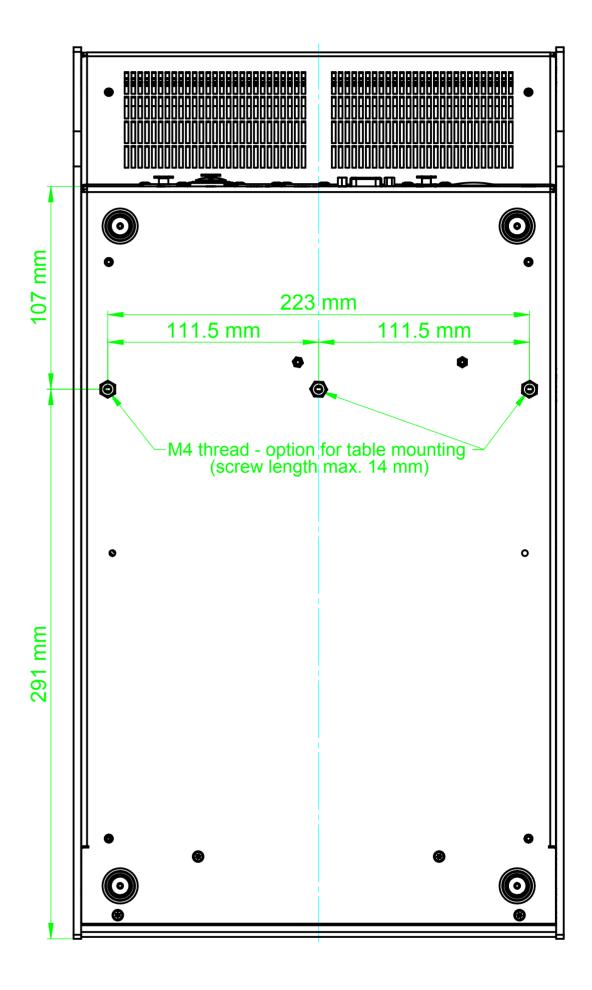
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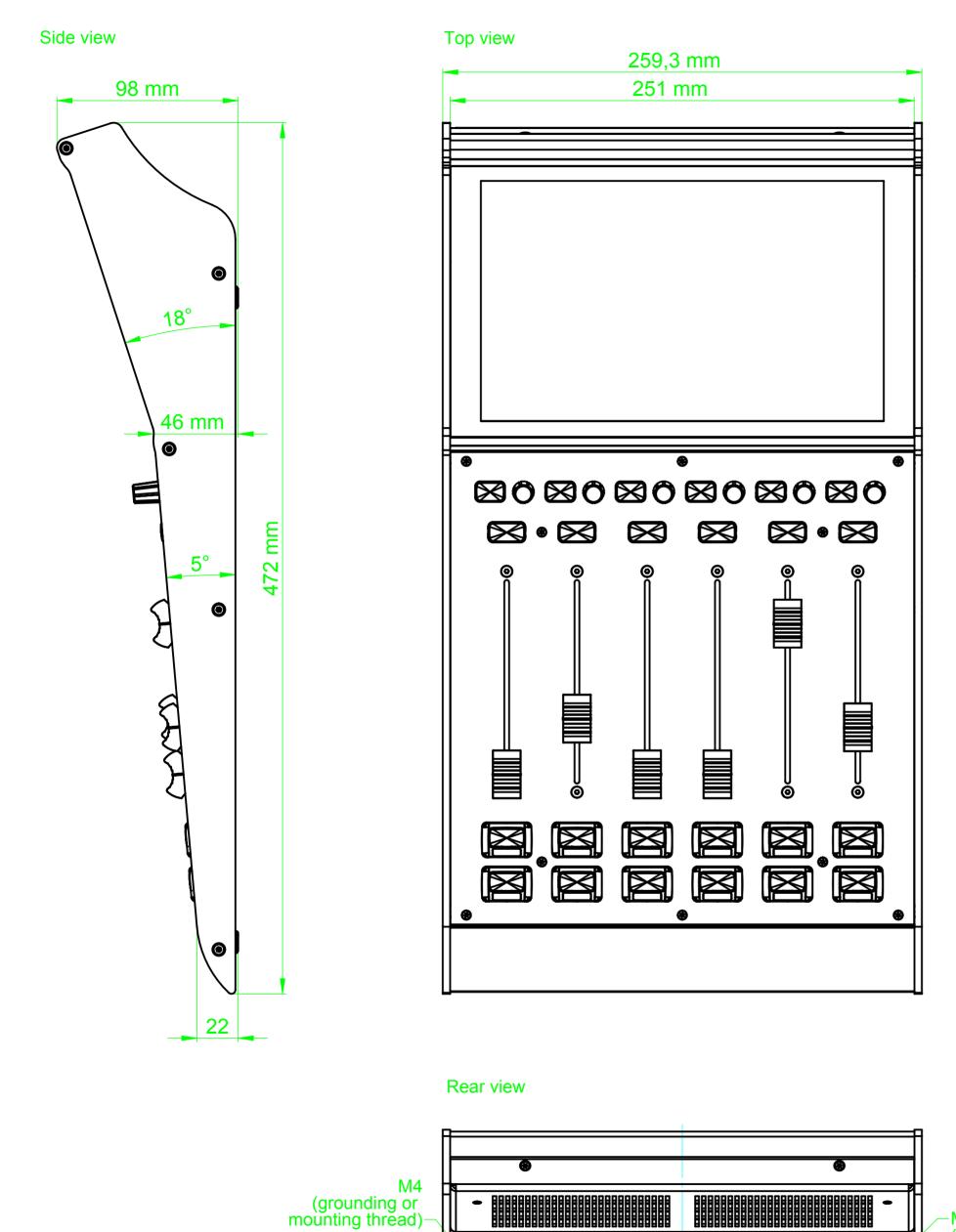


 M4 (grounding or mounting thread)

Bottom view



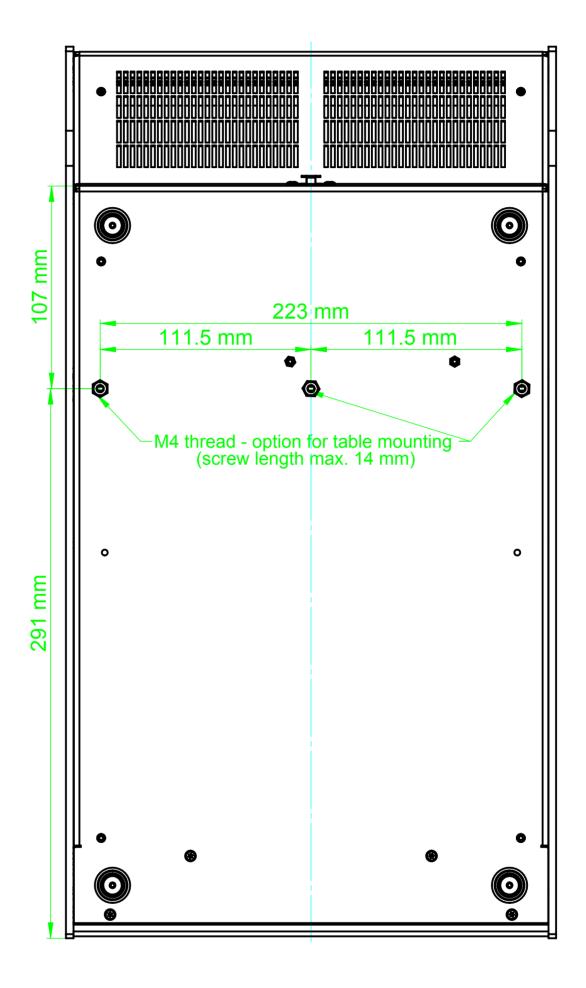
DHD.audio		0			scale:	1:1 (for DIN A2 size)	
Haferkornstraße 5 Fa 04129 Leipzig E-	el.: +49 (0)341 589702 ax: +49 (0)341 589702 Mail: dhd@dhd-audio eb: www.dhd.audio	2			name:	50 5044 D	
			date	name		52-5614 Dim	
		drawn	25.09.18	FM		SX2 Central	module
			Index	Δ	file name:	52-5614 dimen	sion dwa
modificatio	on date		much	/ \		52-5014_uimen	sion.uwy



22,5 mm

222 mm

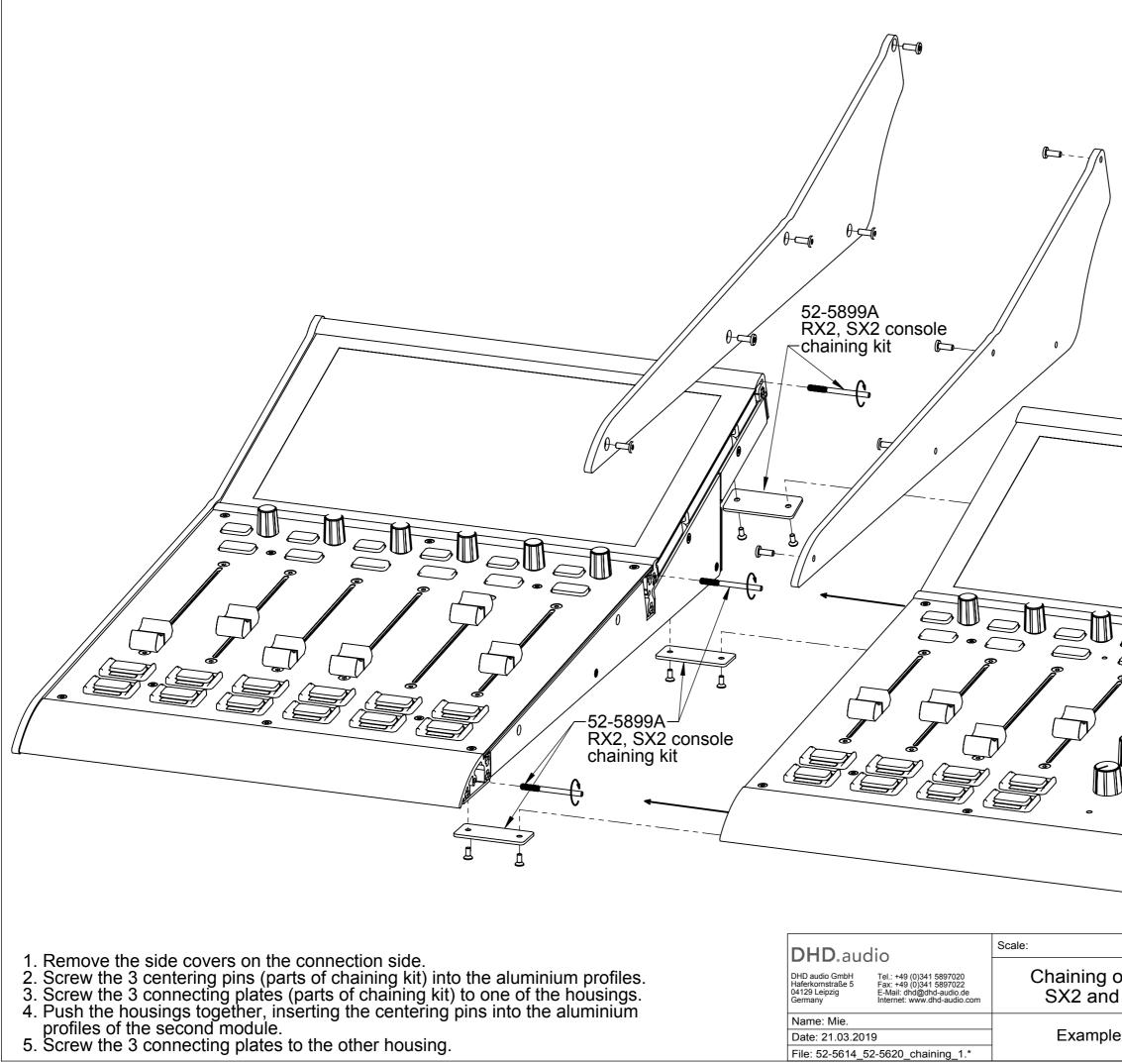
 M4 (grounding or mounting thread) Bottom view



DHD.audi						scale:		1:1 (for DIN A2 size)	$\square \oplus$
DHD audio GmbH Haferkornstraße 5	Tel.: +49 (0)341 Fax: +49 (0)341 E-Mail: dhd@dt	5897022				name:			
04129 Leipzig Germany	web: www.dhd.						52	-5620/5820	Dimonsion
				date	name				
			drawn	25.09.18	FM		S	(2/RX2 Fad	er module
				Index	Δ	file nam	e:	52 5620 5820	dimension.dwg
modifica	ation	date		much	Л			52-5020-5620_	_unnension.uwy

Chaining of Control Modules

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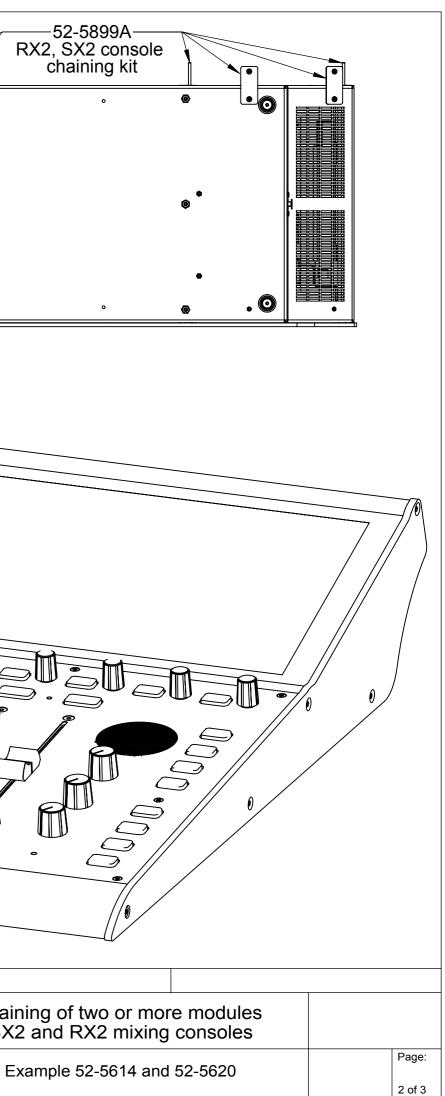


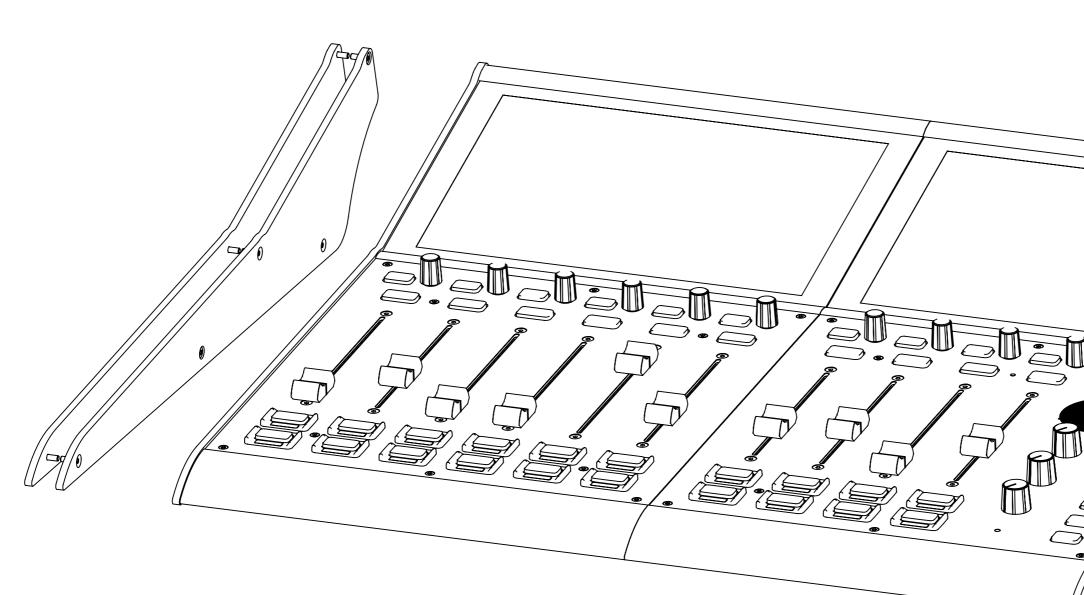
52-5899A RX2, SX2 console chaining kit			
	T		
DHD.audio	Scale:	I	
DHD audio GmbH Tel.: +49 (0)341 5897020 Haferkomstraße 5 Fax: +49 (0)341 5897022 04129 Leipzig E-Maii: dh@dha-audio.de Germany Internet: www.dhd-audio.com	Chaining of two or mor SX2 and RX2 mixing	re modules J consoles	
Name: Mie. Date: 21.03.2019	Example 52-5614 and	52-5620	Page:
File: 52-5614_52-5620_chaining_1.*			1 of 3

	Bottom view:	52- RX2, S cha
	• @	
		•
0 0 0		•
	• ()
	52-5899A RX2, SX2 console chaining kit	
-52-5899A RX2, SX2 console chaining kit	F F	
1. Remove the side covers on the connection side.	DHD.audio	Scale:
 Screw the 3 centering pins (parts of chaining kit) into the aluminium profiles. Screw the 3 connecting plates (parts of chaining kit) to one of the housings. Push the housings together, inserting the centering pins into the aluminium profiles of the second module. Screw the 3 connecting plates to the other housing. 	DHD audio GmbH Haferkomstraße 5 04129 Leipzig Germany Tel.: +49 (0)341 5897020 Fax: +49 (0)341 5897022 E-Mail: dhd@dhd-audio.de Internet: www.dhd-audio.com	Chaining of SX2 and F
5. Screw the 3 connecting plates to the other housing.	Date: 21.03.2019	Example

File: 52-5614_52-5620_chaining_2.*

5. Screw the 3 connecting plates to the other housing.





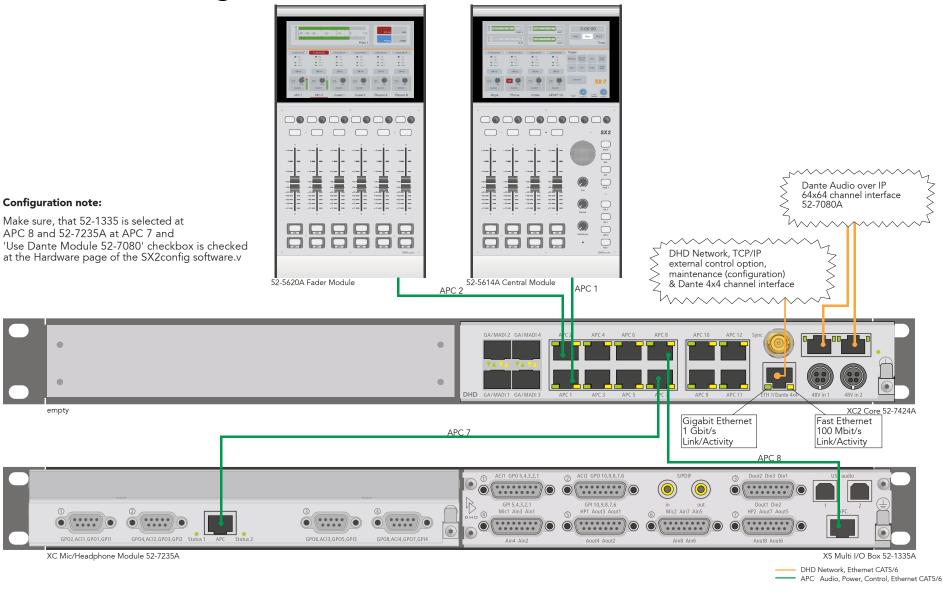
DHD.auc	lio	Scale:
DHD audio GmbH Haferkornstraße 5 04129 Leipzig Germany	Tel.: +49 (0)341 5897020 Fax: +49 (0)341 5897022 E-Mail: dhd@dhd-audio.de Internet: www.dhd-audio.com	Chaining of SX2 and F
Name: Mie.		
Date: 21.03.201	9	Example
File: 52-5614_5	2-5620_chaining_3.*	

f two or more modules	
RX2 mixing consoles	Page:
e 52-5614 and 52-5620	3 of 3

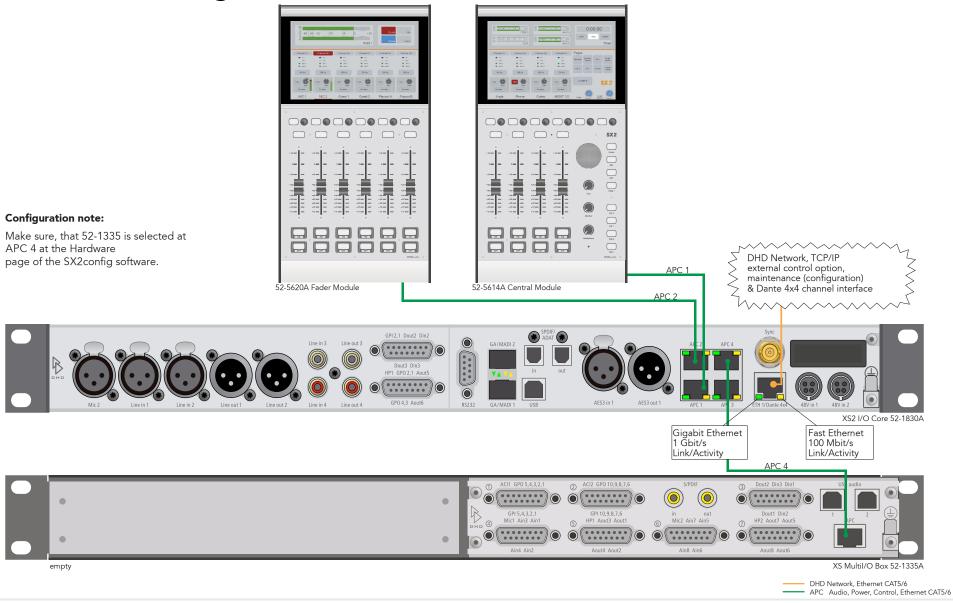
Cabling of SX2 Bundles

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52-1989A - cabling overview

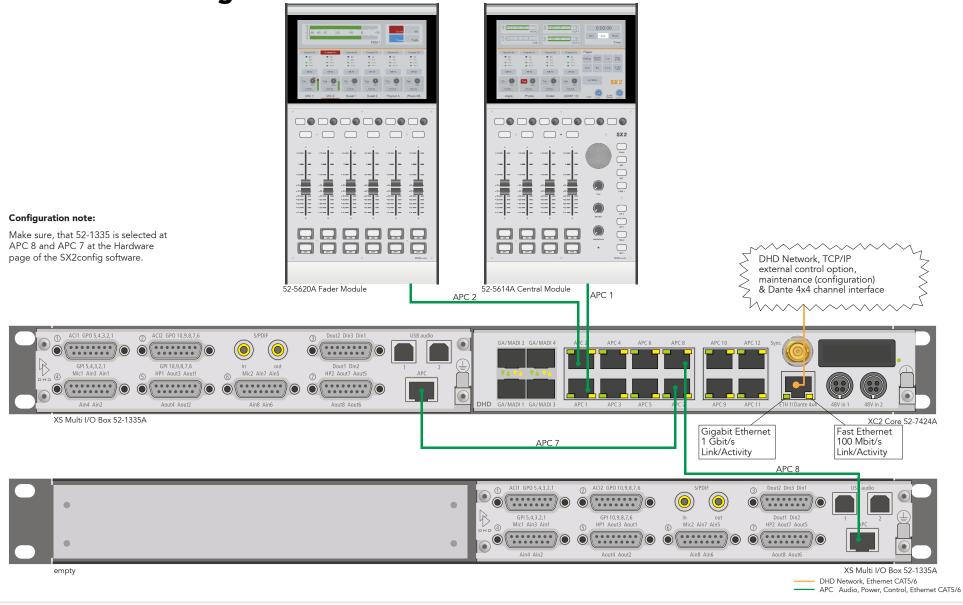


52-1998A - cabling overview



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52-1999A - cabling overview

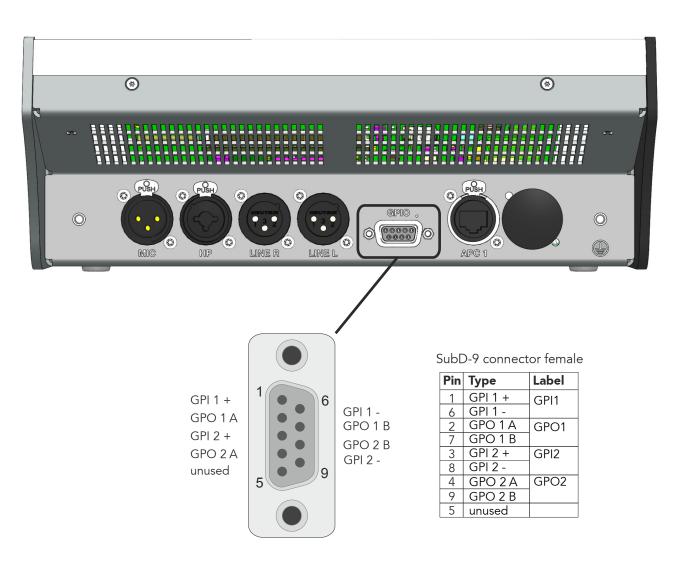


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Pin Assignments

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52-5614 Pin Assignment D-Sub 9 - connector



GPI - general purpose input GPO - general purpose output

Notes:

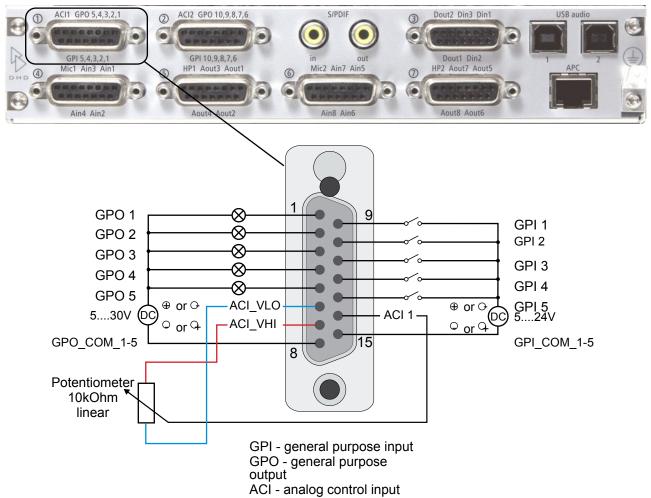
GPI: ON voltage 5 V ... 24 V (DC) without external resistor, internal current limiter to 4 mA current for ON, OFF voltage: 0 V ... + 1.5 V GPO: maximum rated current: 0,2A (resettable fuse), maximum peak switched voltage: 30V DC

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52-1335 Pin Assignment

D-Sub 15 - connector 1



Notes:

GPI and GPO sections are isolated from each other and from the modules internal circuits.

GPI section uses common wire GPI_COM for all 5 GPIs. Polarity of DC between GPIs and GPI_COM is not relevant.

GPI: ON voltage 5 V ... 24 V (DC) without external resistor, internal current limiter to 4 mA current for ON, OFF voltage: 0 V ... + 1.5 V

GPO section uses common wire GPO_COM for all 5 GPOs. Polarity of DC between GPOs and GPO_COM is not relevant.

GPO: maximum rated current: 0,2A (resettable fuse), maximum peak switched voltage: 30V AC or DC

Do not use any of the ACI signals for other purposes than wiring to the potentiometer!

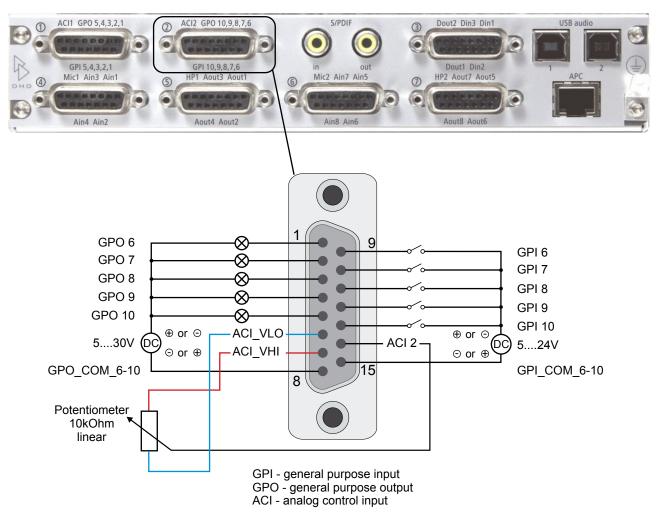
ACI_VLO must not be connected to chassis, housing, earth, shield or other common signals!

The potentiometer must have a resistance value of 10kOhms (linear)!

ACI_VHI, ACI_VLO of connectors 1 and 2 are internally connected.

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52-1335 Pin Assignment D-Sub 15 - connector 2



Notes:

GPI and GPO sections are isolated from each other and from the modules internal circuits.

GPI section uses common wire GPI_COM for all 5 GPIs. Polarity of DC between GPIs and GPI_COM is not relevant.

GPI: ON voltage 5 V \dots 24 V (DC) without external resistor, internal current limiter to 4 mA current for ON, OFF voltage: 0 V \dots + 1.5 V

GPO section uses common wire GPO_COM for all 5 GPOs. Polarity of DC between GPOs and GPO_COM is not relevant.

GPO: maximum rated current: 0,2A (resettable fuse), maximum peak switched voltage: 30V AC or DC

Do not use any of the ACI signals for other purposes than wiring to the potentiometer!

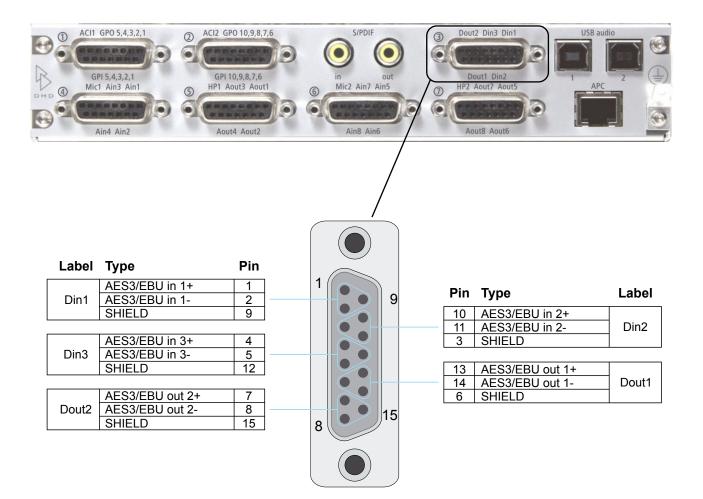
ACI_VLO must not be connected to chassis, housing, earth, shield or other common signals!

The potentiometer must have a resistance value of 10kOhms (linear)!

ACI_VHI, ACI_VLO of connectors 1 and 2 are internally connected.

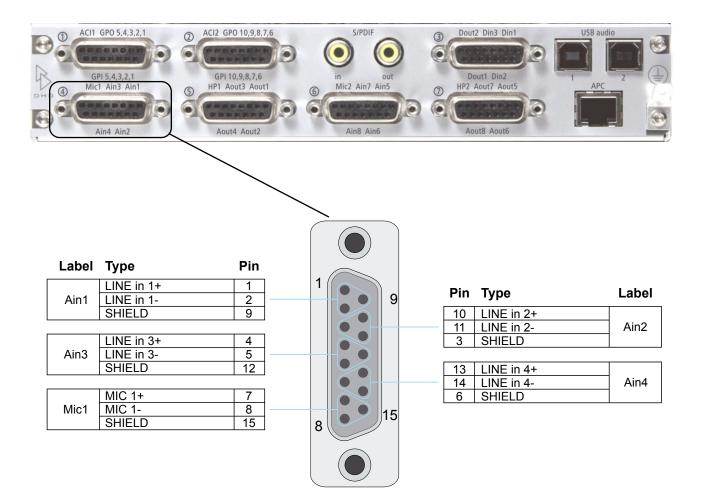
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52-1335 Pin Assignment D-Sub 15 - connector 3



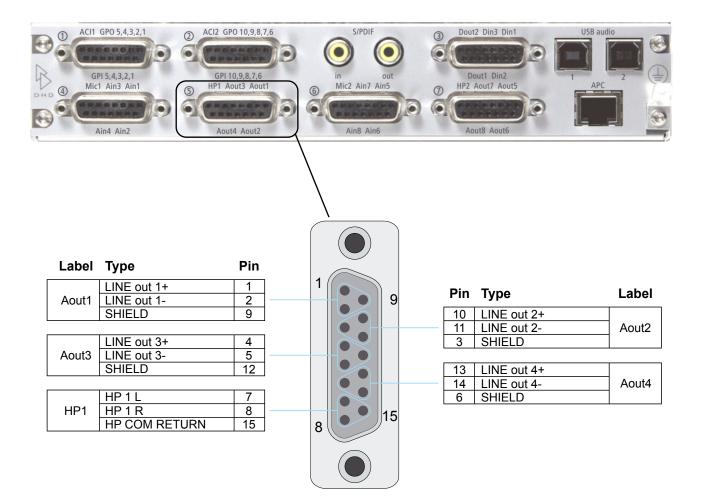
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52-1335 Pin Assignment D-Sub 15 - connector 4



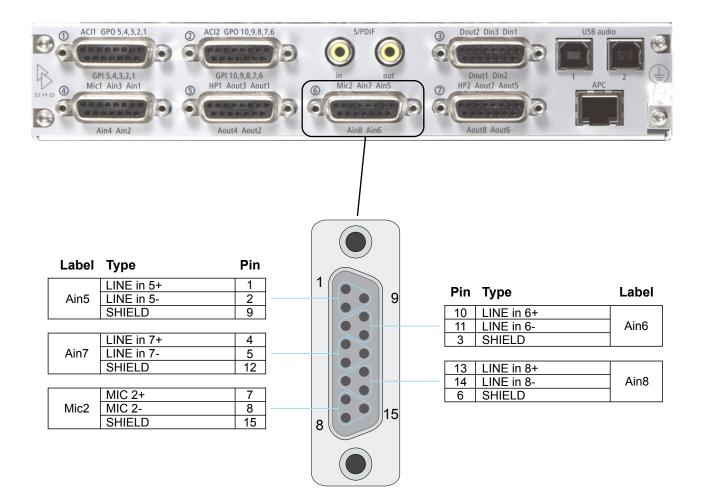
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52-1335 Pin Assignment D-Sub 15 - connector 5



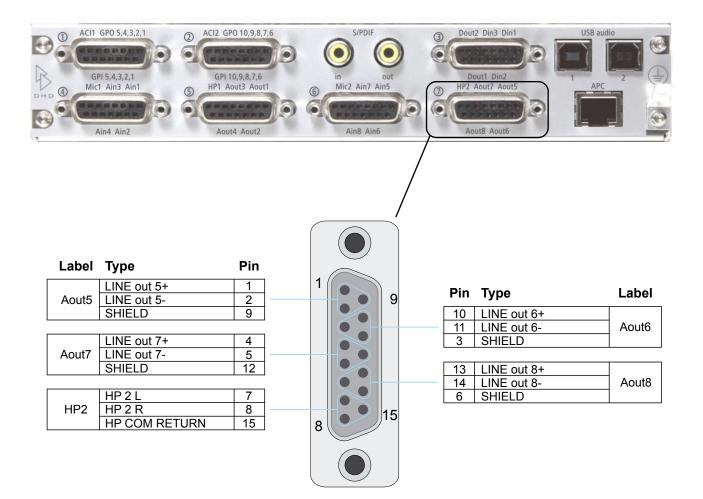
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52-1335 Pin Assignment D-Sub 15 - connector 6



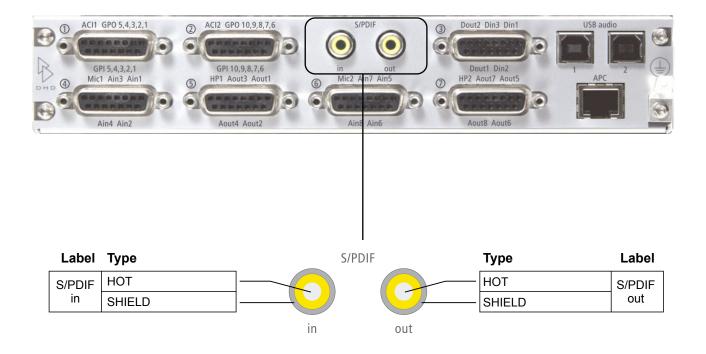
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52-1335 Pin Assignment D-Sub 15 - connector 7



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52-1335 Pin Assignment S/PDIF



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52-1335 Pin Assignment USB Audio

The USB audio ports are fully functional digital stereo inputs and outputs. Connected to a PC, each USB audio port is recognised as an USB audio device, which can be used for playback and recording in every audio software.



Important

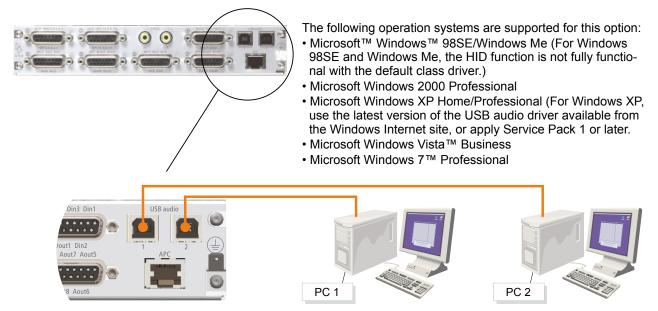
These USB audio ports can not be used for maintenance or control purposes.

The following applies to every USB audio port:

- 1 stereo input, sample rate converter
- 1 stereo output, sample rate converter (linked to associated input if activated in Toolbox)
- full-speed transceivers
- compliant with USB 2.0 specification
- bus-powered USB circuit (the windows driver still works when 52-1335 is powered off)
- · default Windows USB audio device driver is used, no additional driver required

Two options for usage of USB audio are possible:

Option 1: Each USB audio port is connected to a separate PC



Option 2: Both USB audio ports are connected to a single PC

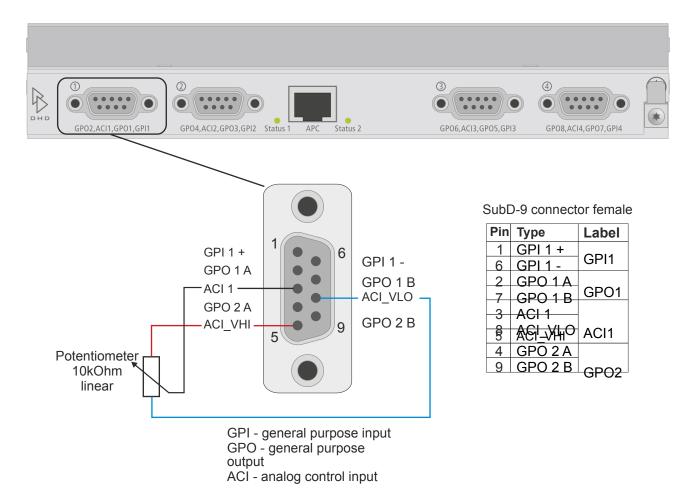
Windows 7 (32Bit or 64Bit) is required for proper use of both USB audio ports on one PC. (For more information, see 52/SX manual.)



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52-7235 Pin Assignment D-Sub 9 - connector 1



Notes:

GPI: ON voltage 5 V ... 24 V (DC) without external resistor, internal current limiter to 4 mA current for ON, OFF voltage: 0 V ... + 1.5 V

GPO: maximum rated current: 0,2A (resettable fuse), maximum peak switched voltage: 30V DC

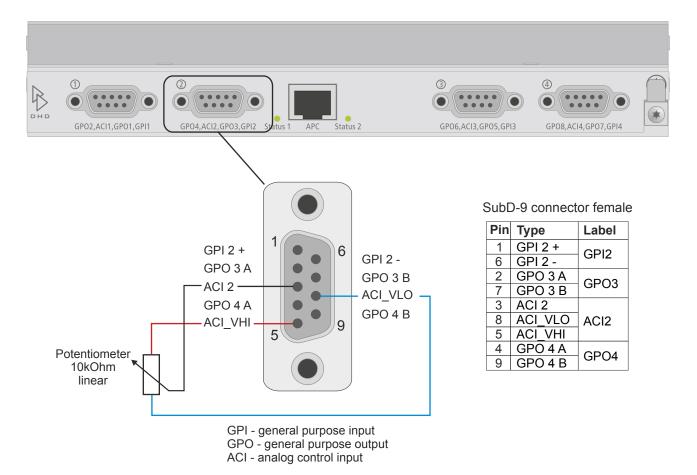
Do not use any of the ACI signals for other purposes than wiring to the potentiometer!

ACI_VLO must not be connected to chassis, housing, earth, shield or other common signals!

The potentiometer must have a resistance value of 10kOhms (linear)!

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52-7235 Pin Assignment D-Sub 9 - connector 2



Notes:

GPI: ON voltage 5 V ... 24 V (DC) without external resistor, internal current limiter to 4 mA current for ON, OFF voltage: 0 V ... + 1.5 V

GPO: maximum rated current: 0,2A (resettable fuse), maximum peak switched voltage: 30V DC

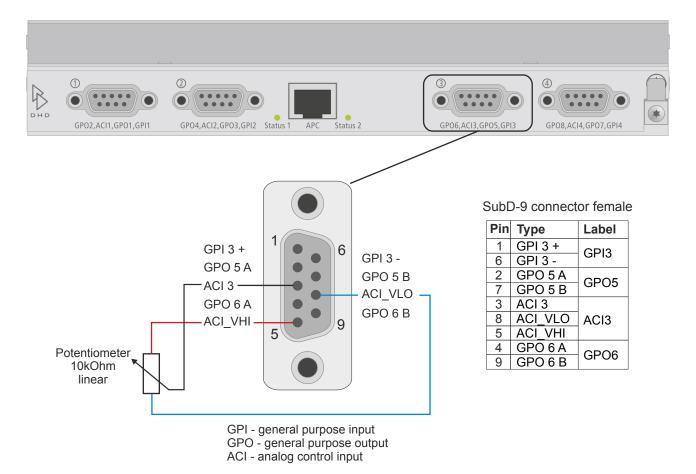
Do not use any of the ACI signals for other purposes than wiring to the potentiometer!

ACI_VLO must not be connected to chassis, housing, earth, shield or other common signals!

The potentiometer must have a resistance value of 10kOhms (linear)!

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52-7235 Pin Assignment D-Sub 9 - connector 3



Notes:

GPI: ON voltage 5 V ... 24 V (DC) without external resistor, internal current limiter to 4 mA current for ON, OFF voltage: 0 V ... + 1.5 V

GPO: maximum rated current: 0,2A (resettable fuse), maximum peak switched voltage: 30V DC

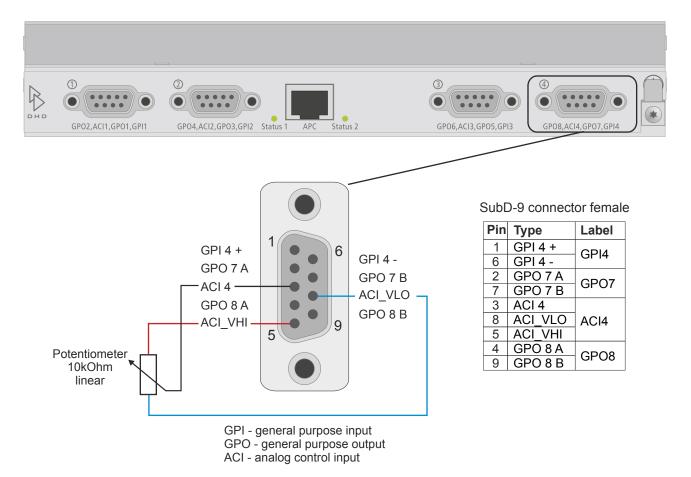
Do not use any of the ACI signals for other purposes than wiring to the potentiometer!

ACI_VLO must not be connected to chassis, housing, earth, shield or other common signals!

The potentiometer must have a resistance value of 10kOhms (linear)!

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52-7235 Pin Assignment D-Sub 9 - connector 4



Notes:

GPI: ON voltage 5 V ... 24 V (DC) without external resistor, internal current limiter to 4 mA current for ON, OFF voltage: 0 V ... + 1.5 V

GPO: maximum rated current: 0,2A (resettable fuse), maximum peak switched voltage: 30V DC

Do not use any of the ACI signals for other purposes than wiring to the potentiometer!

ACI_VLO must not be connected to chassis, housing, earth, shield or other common signals!

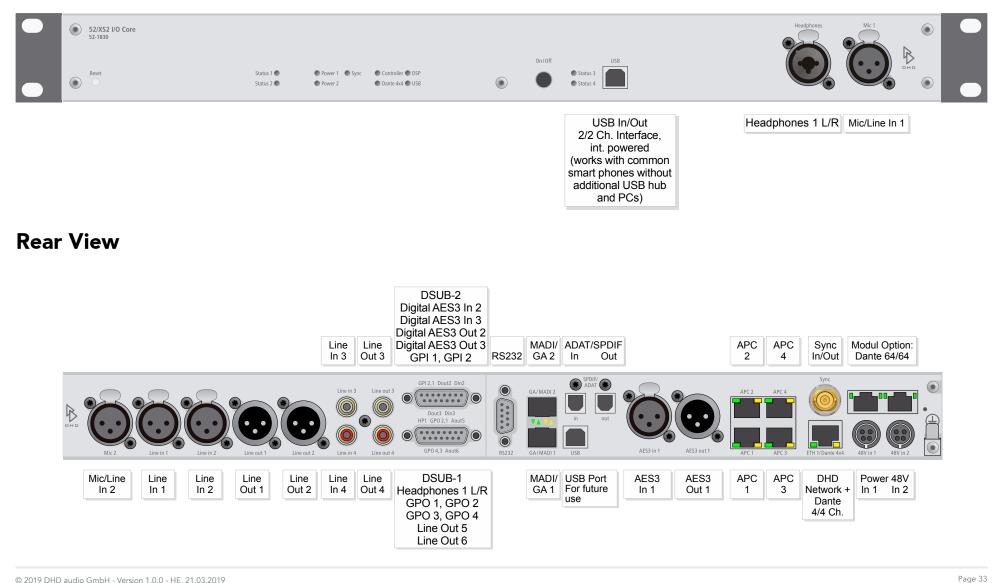
The potentiometer must have a resistance value of 10kOhms (linear)!

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DHD.audio Support

52-1830 Connectors

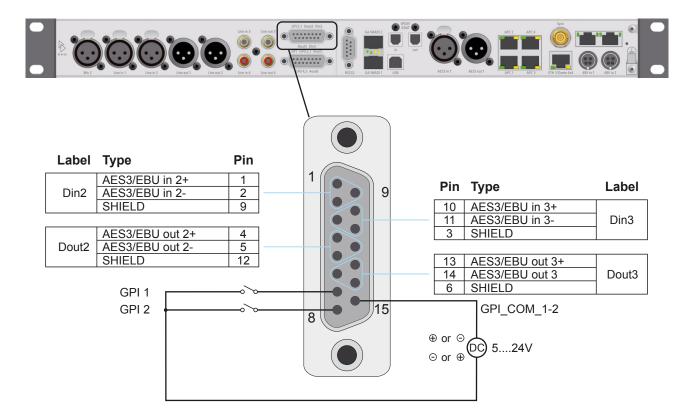
Front View



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52-1830 Pin Assignment

D-Sub 15 - upper connector



GPI - general purpose input GPO - general purpose output

Notes:

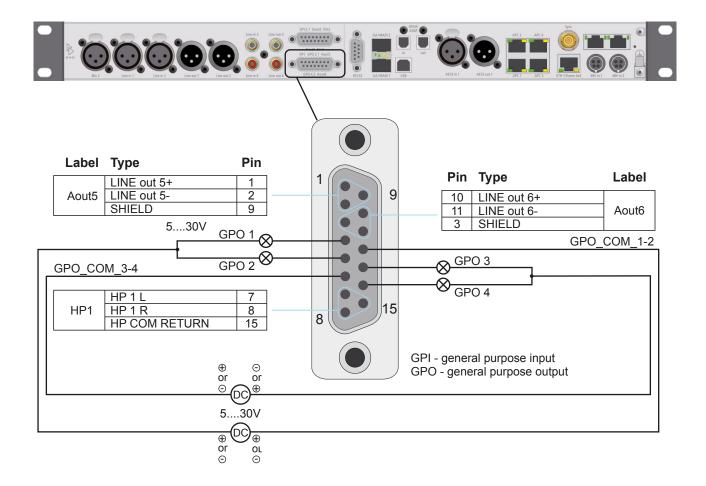
GPI and GPO sections are isolated from each other and from the modules internal circuits.

GPI section uses common wire GPI_COM for GPI 1 and GPI 2. Polarity of DC between GPIs and GPI_COM is not relevant.

GPI: ON voltage 5 V ... 24 V (DC) without external resistor, internal current limiter to 4 mA current for ON, OFF voltage: 0 V ... + 1.5 V

52-1830 Pin Assignment

D-Sub 15 - lower connector



Notes:

GPI and GPO sections are isolated from each other and from the modules internal circuits.

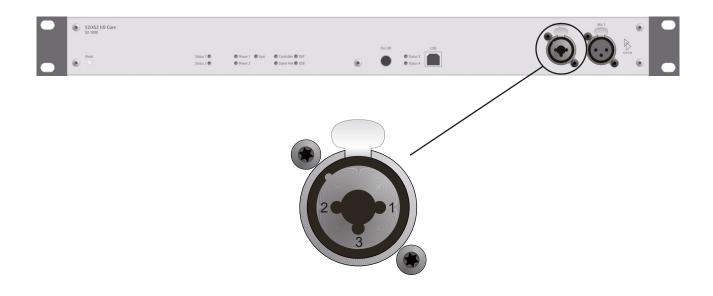
GPO section uses common wire GPO_COM_1-2 for GPO 1 and GPO 2 and GPO_COM_3-4 for GPO 3 and GPO 4. Polarity of DC between GPOs and GPO_COM is not relevant.

GPO: maximum rated current: 0,2A (resettable fuse), maximum peak switched voltage: 30V AC or DC

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52-1830 Pin Assignment

Headphone connector



1/4" stereo jack	Туре	XLR Pin
Sleeve	HP_COM_RETURN	1
Tip	HP1L	2
Ring	HP1R	3

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52-1830 Pin Assignment USB Audio

The USB audio port at the front panel is a fully functional digital stereo input and output. Connected to a PC or Mac, each USB audio port is recognised as an USB audio device, which can be used for playback and recording in every audio software.



The following applies to the front USB audio port:

- 1 stereo input, sample rate converter
- 1 stereo output, sample rate converter (linked to associated input if activated in Toolbox)
- full-speed transceivers
- · compliant with USB 2.0 specification
- self-powered USB circuit
- · default Windows or Mac USB audio device driver is used, no additional driver required
- iOS devices with version 7.0 or higher can be connected via a camera connection kit for playback and recording

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Serial Connectors

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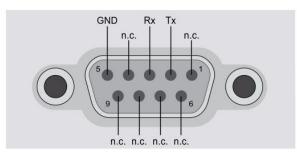
52/XS2 Core Serial Connectors 52-1830 Core

The 52/XS2 Cores (52-1801 and 52-1804) provide one serial port. The Serial port on the rear of the core is a RS232 port and can not be changed to RS422.



52-1830 XS2 Core - rear view with one serial RS232 port

You can find the pin assignment for the female RS232 port on the core in the following drawing:



RS232 - DSub-9 female connector on core

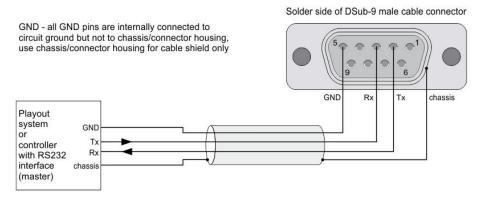
GND - all GND pins are internally connected to circuit ground but not to chassis/connector housing, use chassis/connector housing for cable shield only

n.c. - internally not connected

Pin assignment of the RS232 port on the core

With that pin assignment a standard extension cable (uncrossed) can be directly connected to a PC.

You can find the pin assignment for a **RS232 cable connector** in the following drawing:



Pin assignment for the RS232 cable connector

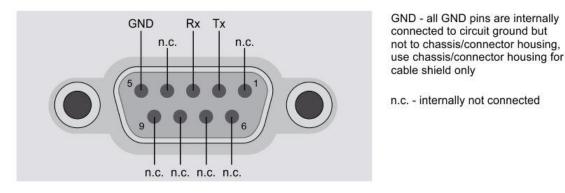
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52/XC2 Core Serial Connectors 52-7424 Core



52-7424 XC2 Core - side view with one male DSub-9 serial RS232 port

You can find the pin assignment for the female RS232 port on the core in the following drawing:

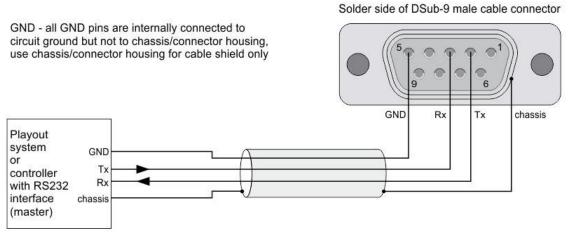


RS232 - DSub-9 female connector on core

Pin assignment of the RS232 port on the core

With that pin assignment a standard extension cable (uncrossed) can be directly connected to a PC.

You can find the pin assignment for a RS232 cable connector in the following drawing:





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