

Series 52

52/SX Mixing Console Bundle Information

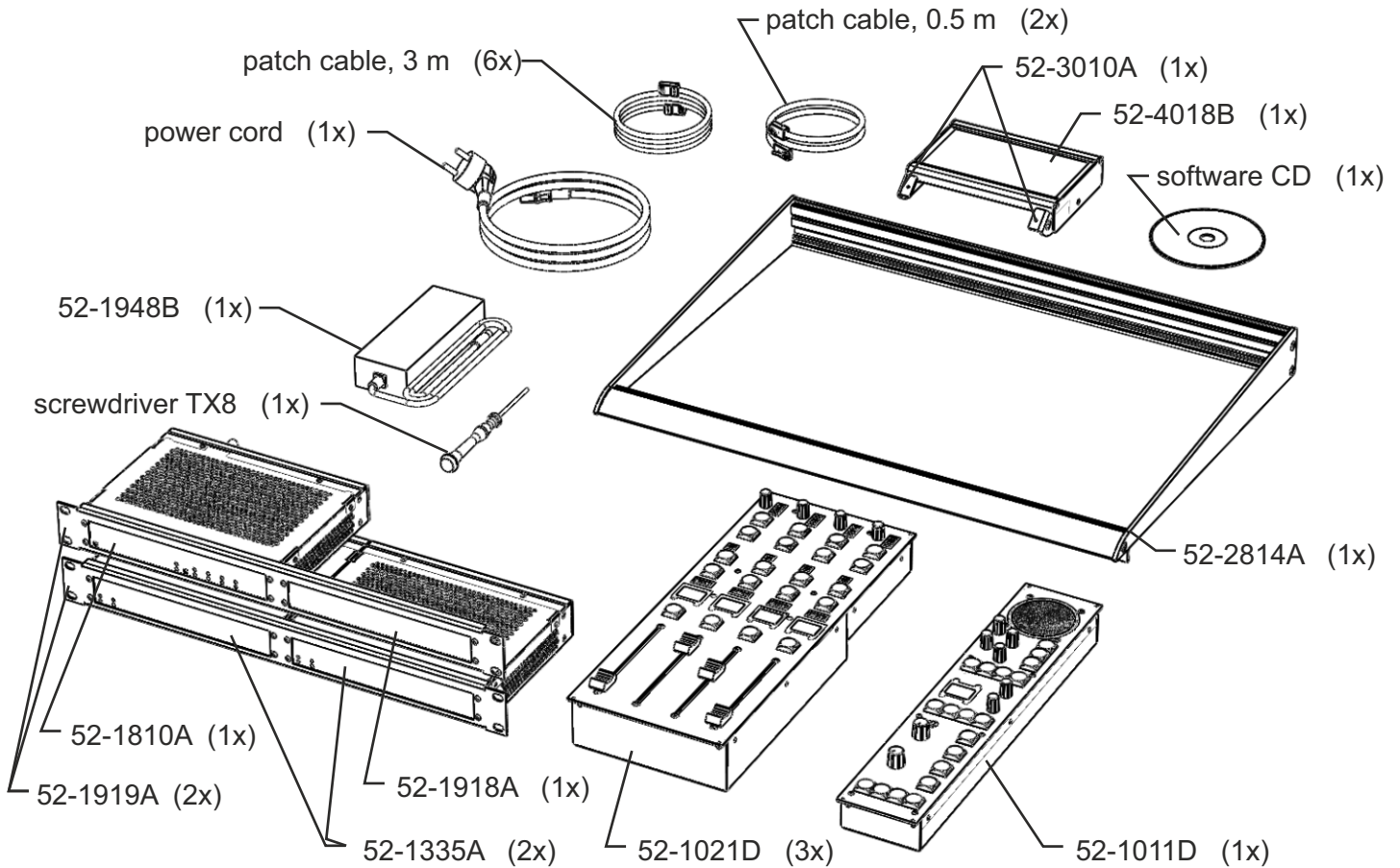
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Version: 1.13.0



52-1993K - SX Bundle

Package contents:



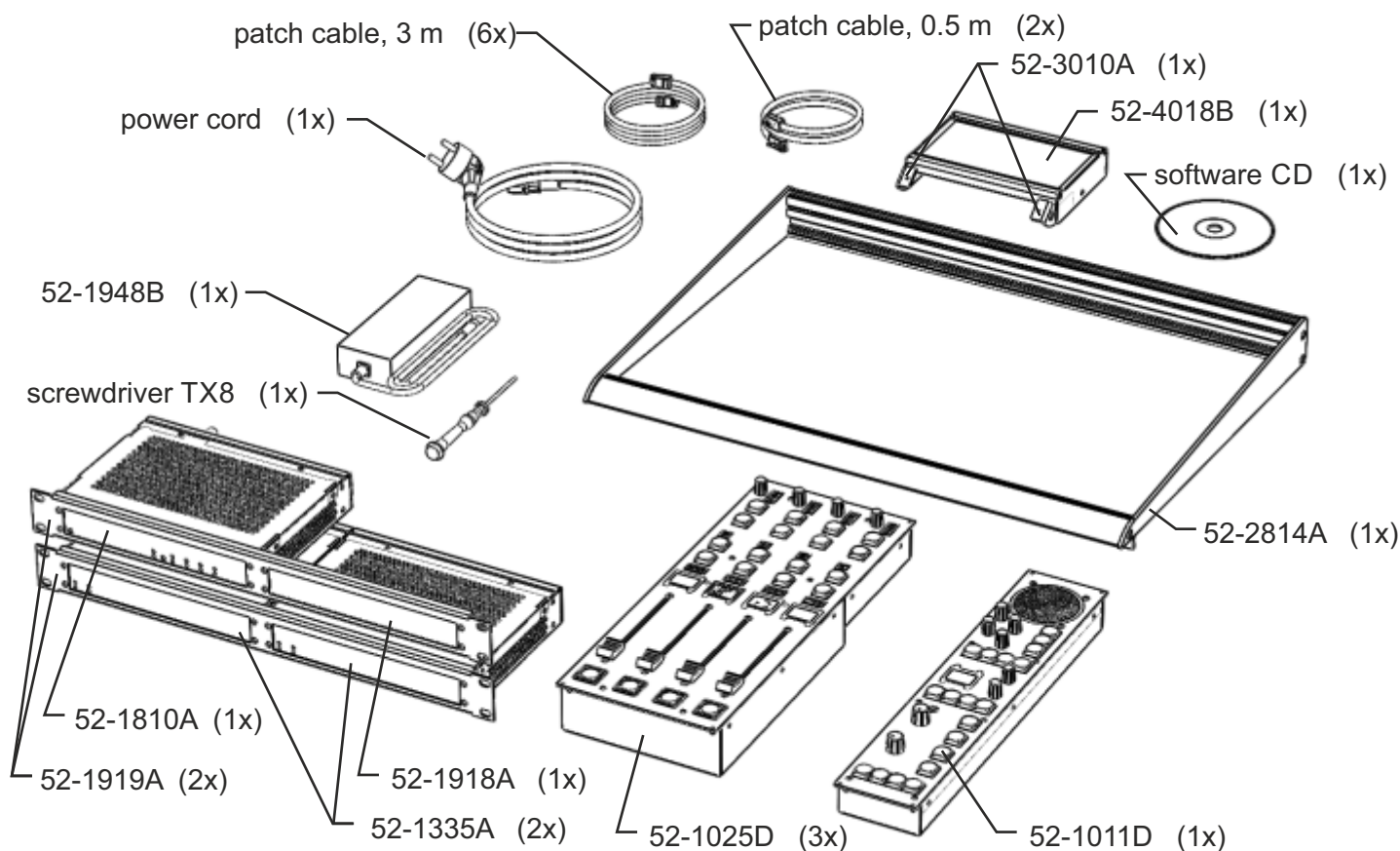
part nr.	name	qty.
52-1011D	SX Central Module	1x
52-1021D	SX Fader Module	3x
52-1335A	XS Multi I/O Box	2x
52-1810A	XS2 Core	1x
52-1918A	XS blank panel for 52-1919	1x
52-1919A	XS 19" Adapterpanel	2x
52-1948B	XS Power Supply 48V/100W	1x
52-2814A	SX Console Frame	1x
52-3010A	Console mounting kit for 52-4018	1x
52-4018B	TFT/Touch Display, 7" IPS	1x
--	Power cord	1x
--	Patch cable, CAT5, 3m	6x
--	Patch cable, CAT5, 0.5m	2x
--	Screwdriver Torx TX8	1x
--	Software CD, SX Config	1x

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52-1995K - SX Bundle

Package contents:

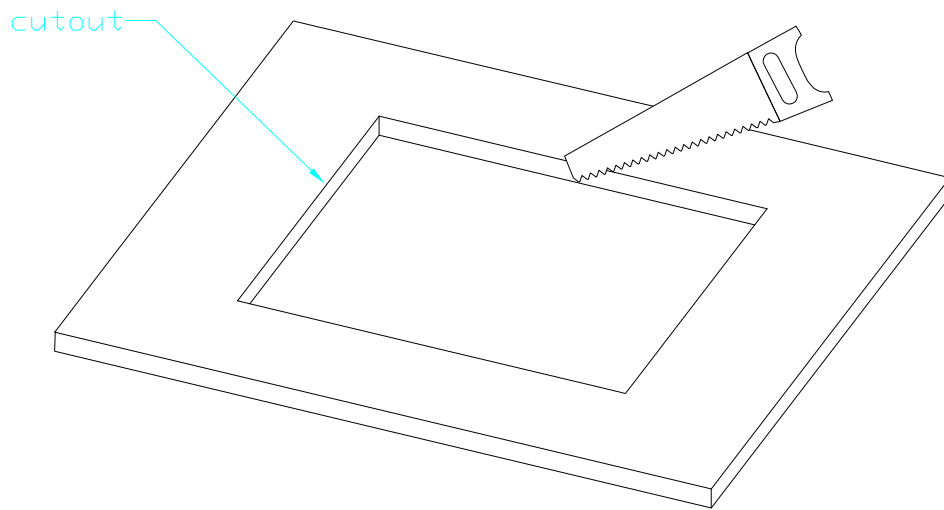
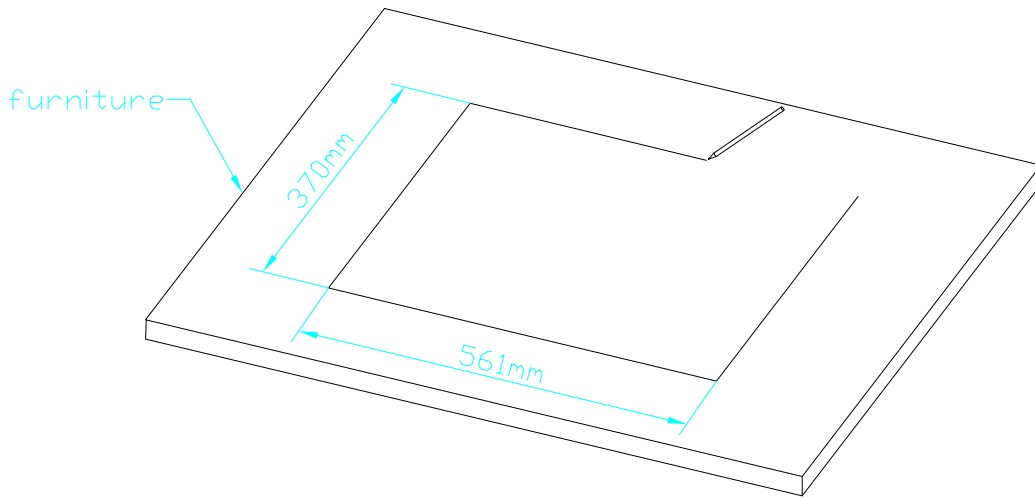


part nr.	name	qty.
52-1011D	SX Central Module	1x
52-1025D	SX Fader Module	3x
52-1335A	XS Multi I/O Box	2x
52-1810A	XS2 Core	1x
52-1918A	XS blank panel for 52-1919	1x
52-1919A	XS 19" Adapterpanel	2x
52-1948B	XS Power Supply 48V/100W	1x
52-2814A	SX Console Frame	1x
52-3010A	Console mounting kit for 52-4018	1x
52-4018B	TFT/Touch Display, 7" IPS	1x
--	Power cord	1x
--	Patch cable, CAT5, 3m	6x
--	Patch cable, CAT5, 0.5m	2x
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Cutout for Console Frame 52-2814 of Mixing Console 52/SX.
For dimensions of Console Frame, see next page!



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Internet: www.dhd-audio.com

Scale: 1:5 (DIN A3)

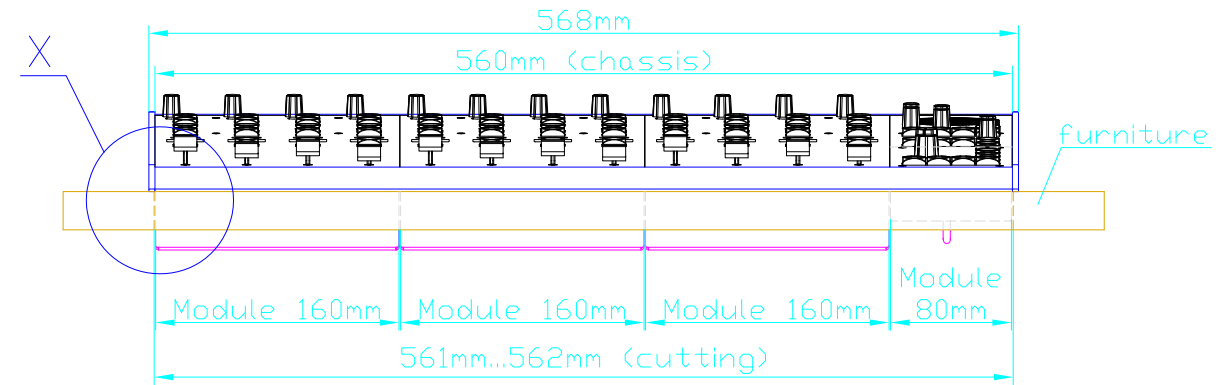
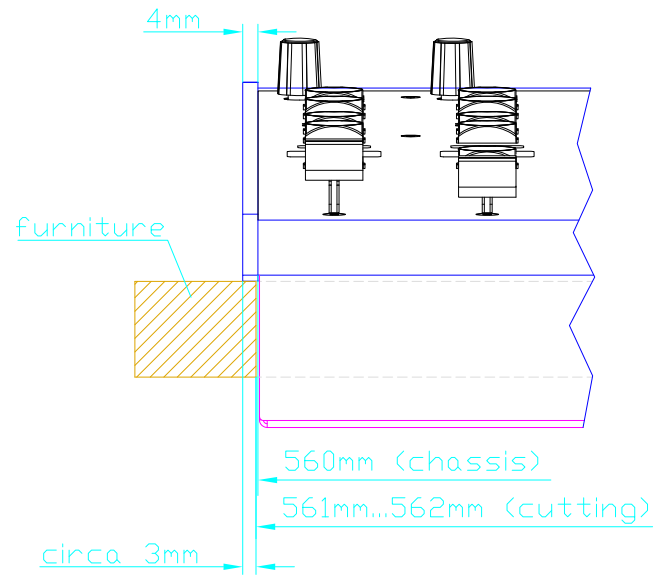
Dimensions cutout for
Console Frame

Name: Miethling
Date: 26.10.2010
File: 52-2814_sx_dimension.dwg

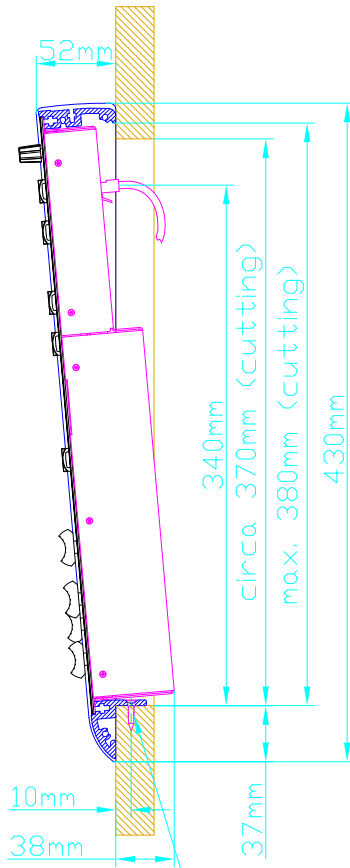
52-2814
(Console Frame for 3 Fader Modules
and 1 Central Module)

Page:
1/2

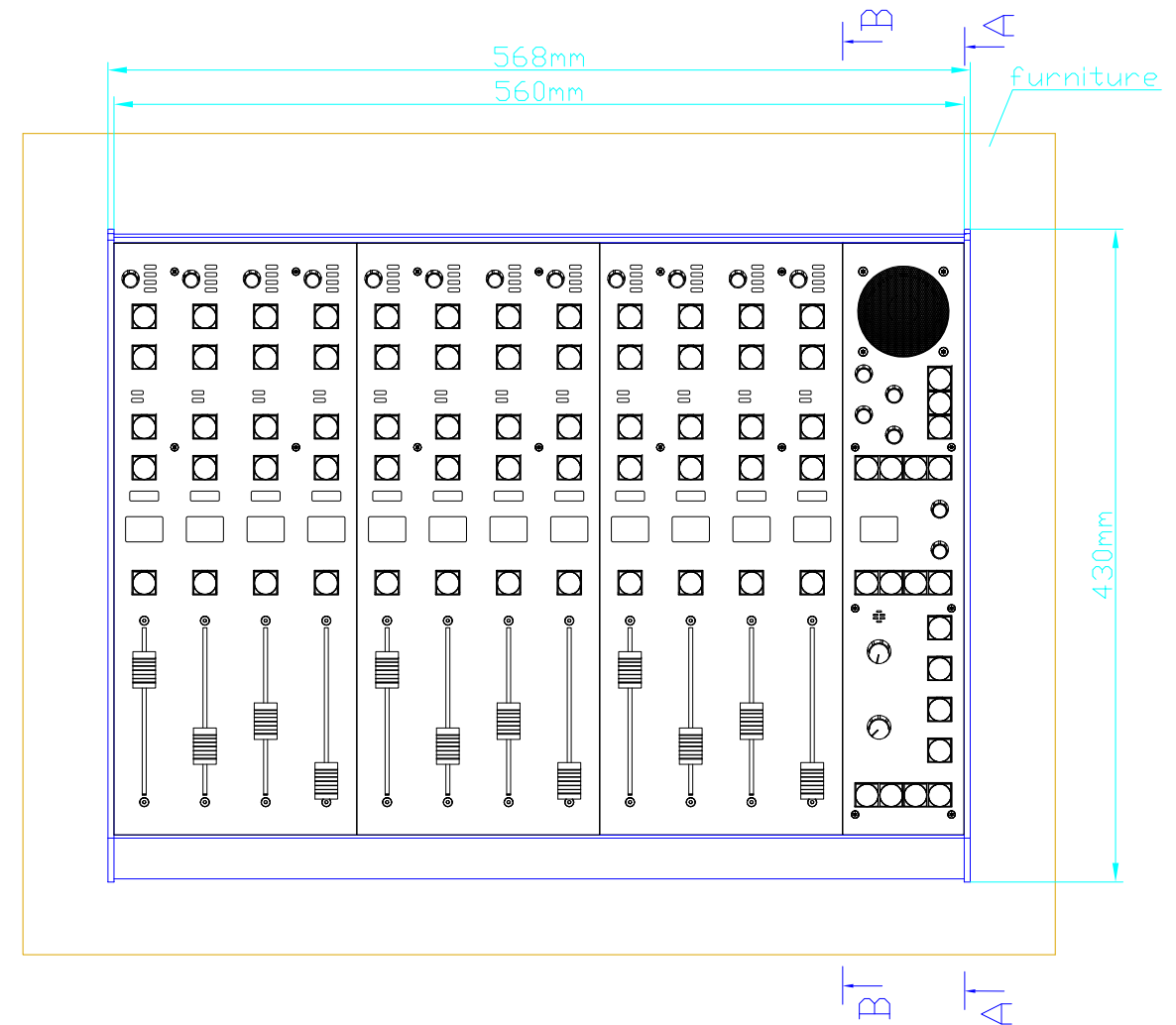
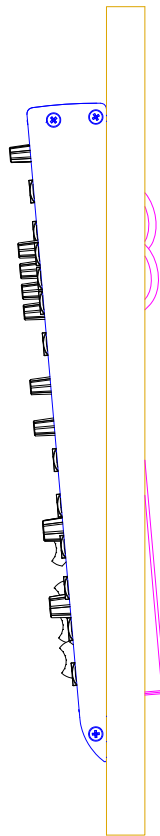
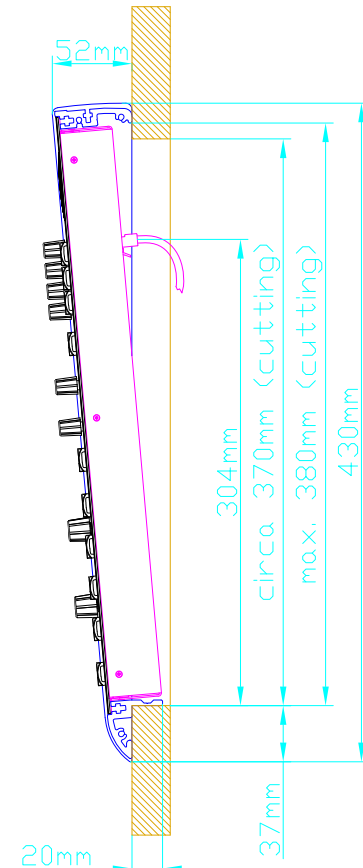
view X, scale 1:2



cut B-B




cut B-B



For fixing console frame to furniture, please drill bore d=3,5...4mm into aluminium profile for wooden screw.

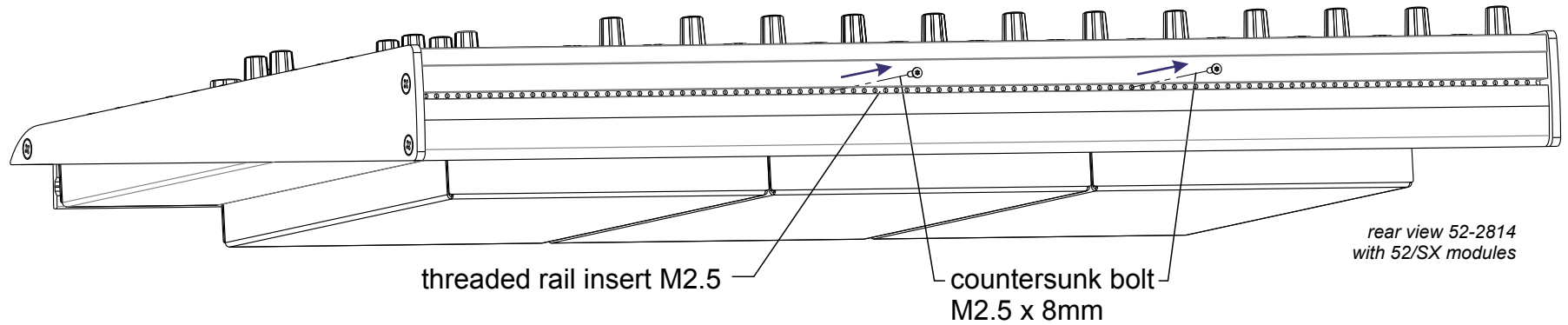
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Console Frame for example Mixing Console 52/SX

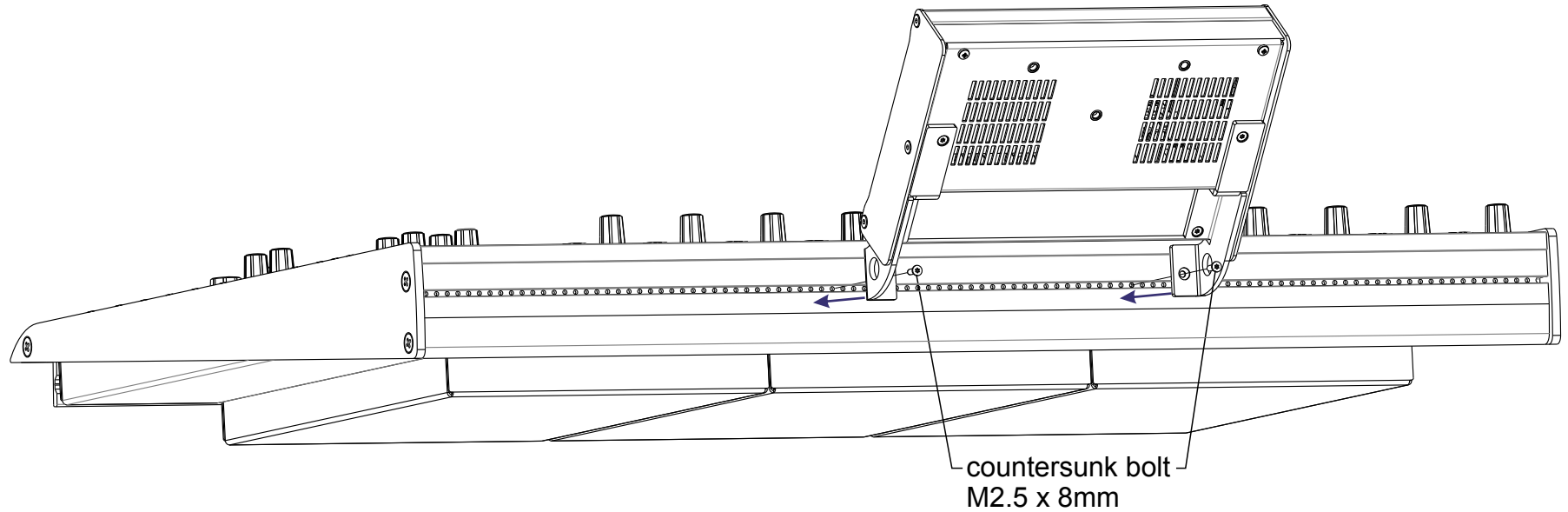
 <p>DHD Deubner Hoffmann Digital GmbH Haferkornstrasse 5 04129 Leipzig / Germany Phone: +49 341 5897020 Fax: +49 341 5897022 E-mail: dhd@dhd-audio.com Internet: www.dhd-audio.com</p>	Scale: 1:5 (DIN A3)	<p>Dimensions Console Frame of Mixing Console 52/SX</p> <p>52-2814 (Console Frame for 3 Fader Modules) and 1 Central Module)</p>		Page: 2/2
	<p>Name: Miethling Date: 26.10.2010 File: 52-2814_sx_dimension.dwg</p>			

Quick installation guide for mounting TFT/Touch Display to console frame

step
1

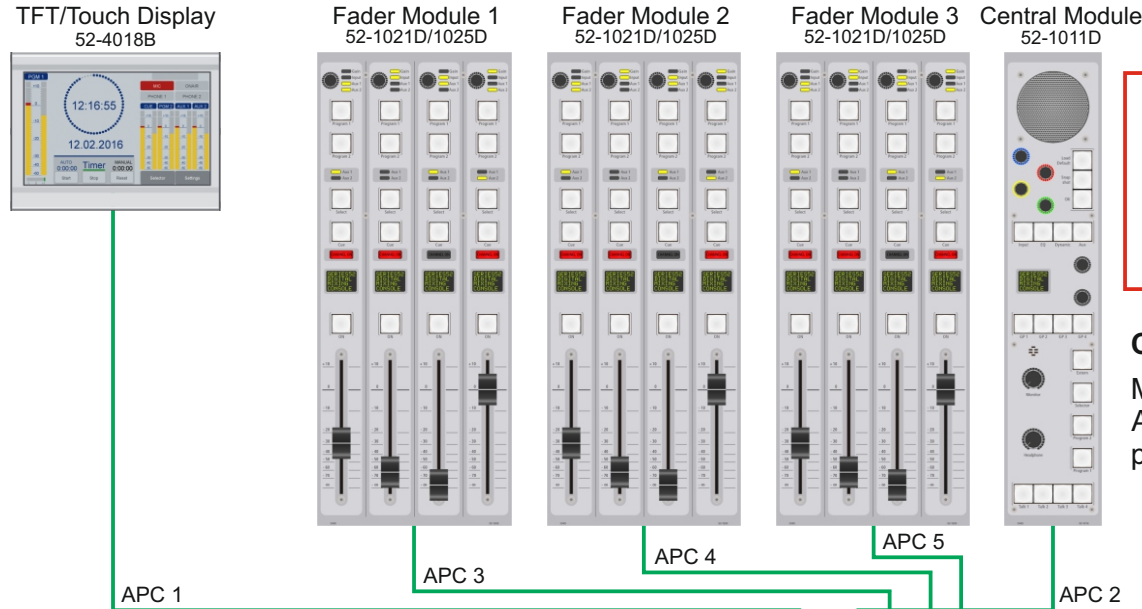


step
2



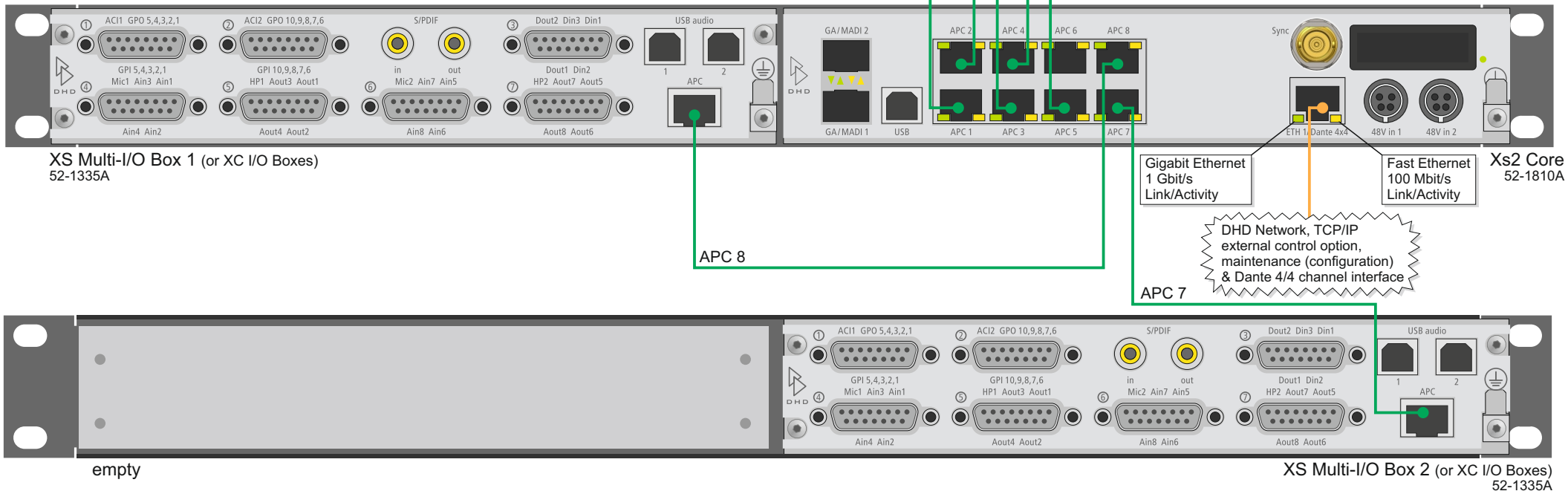
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52/SX Cabling Overview - Example 12 Fader and 2 XS Multi-I/O Boxes



Important note:
Use minimum **Firmware version 8-2-2** and **SXConfig version 8-2-1** or the version on the CD supplied with the console, which may be a later version.

Configuration note:
Make sure, that **52-1335** is selected at APC 8 and APC 7 at the Hardware page of the SXconfig software.



Gigabit Ethernet 1 Gbit/s Link/Activity
Fast Ethernet 100 Mbit/s Link/Activity
DHD Network, TCP/IP external control option, maintenance (configuration) & Dante 4/4 channel interface

For more cabling examples please see: http://dhd-audio.de/dhd_files/52sx/manual/html/52sx_modules_en/52sx_cabling_examples_2.pdf

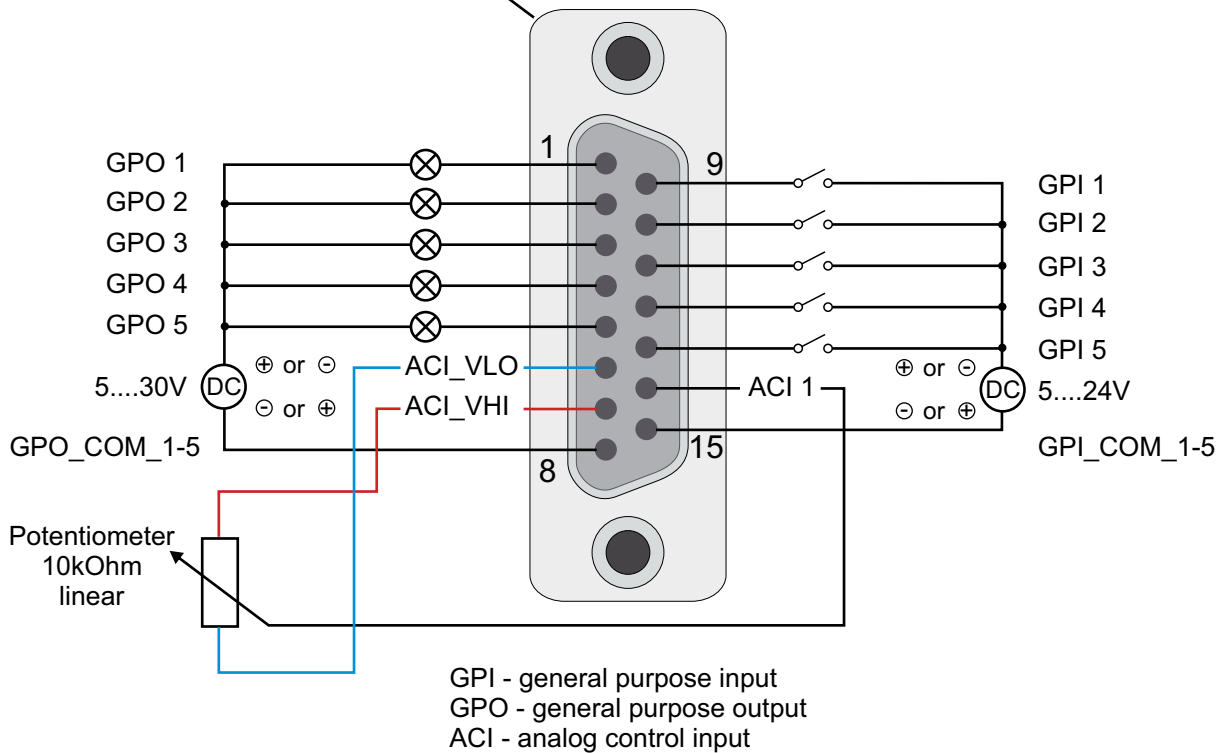
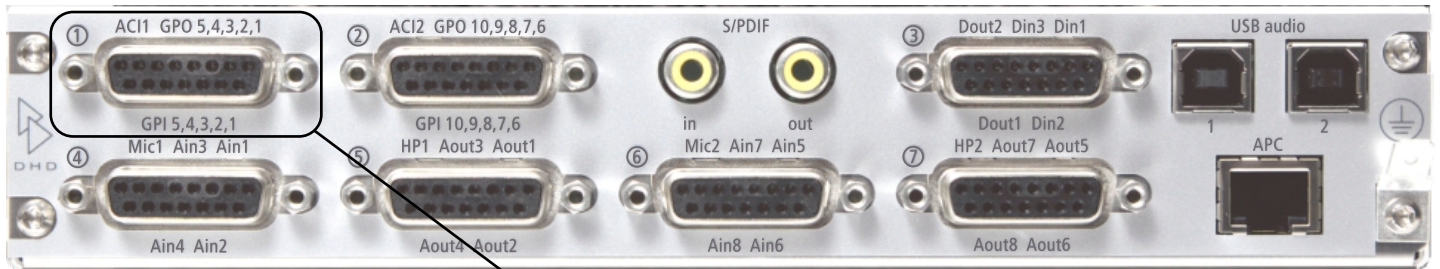
— DHD Network, Ethernet CAT5/6
— APC - Audio, Power, Control, Ethernet CAT5/6



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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)!

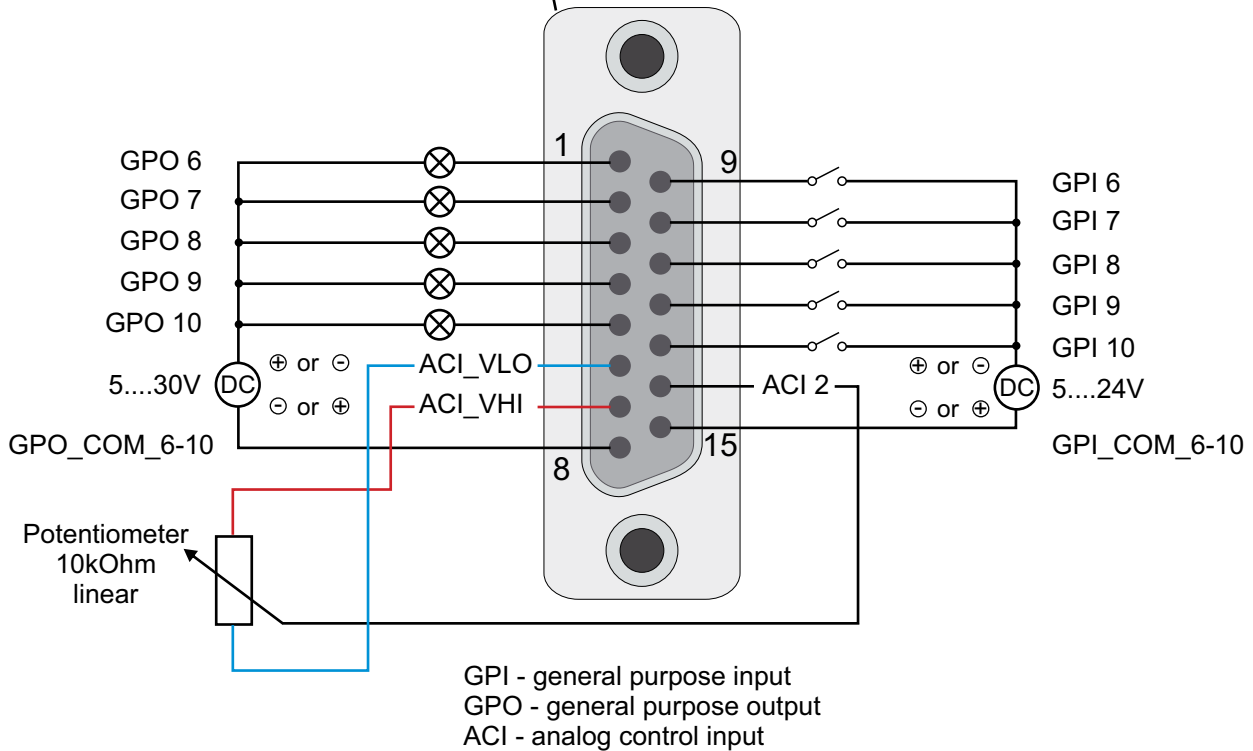
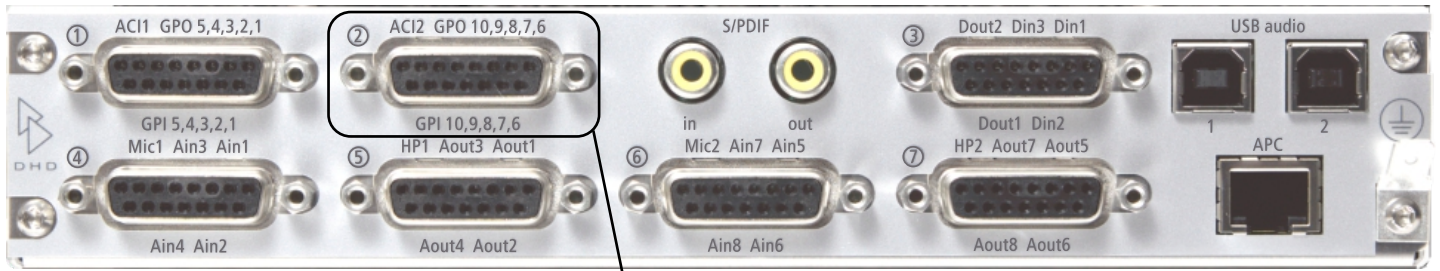
ACI_VHI, ACI_VLO of connectors 1 and 2 are internally connected.

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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 ... 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)!

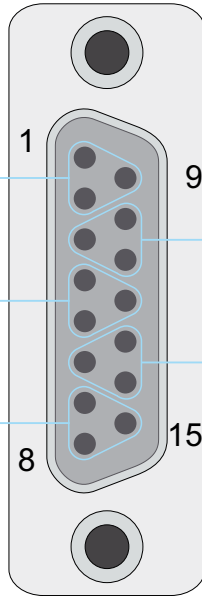
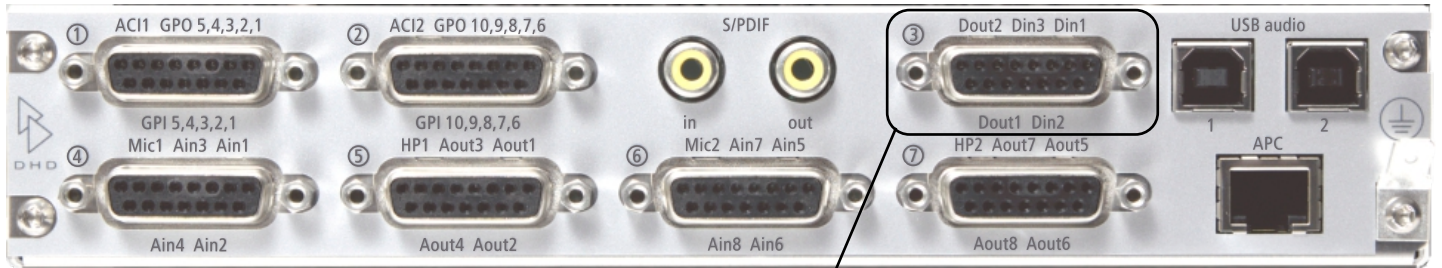
ACI_VHI, ACI_VLO of connectors 1 and 2 are internally connected.

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52-1335 Pin Assignment

D-Sub 15 - connector 3



Label	Type	Pin
Din1	AES3/EBU in 1+	1
	AES3/EBU in 1-	2
	SHIELD	9
Din3	AES3/EBU in 3+	4
	AES3/EBU in 3-	5
	SHIELD	12
Dout2	AES3/EBU out 2+	7
	AES3/EBU out 2-	8
	SHIELD	15

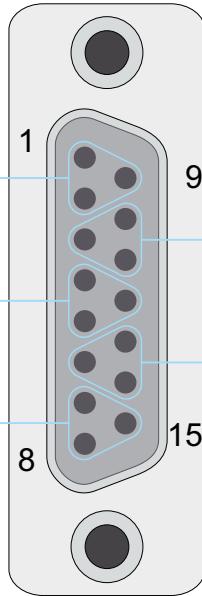
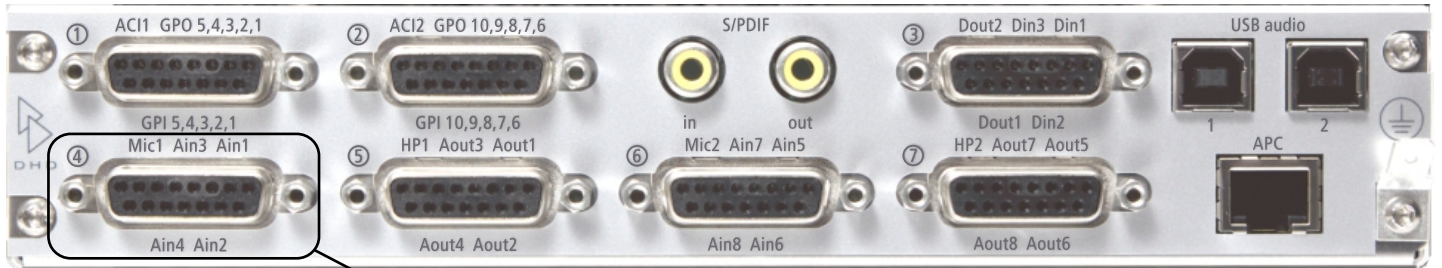
Pin	Type	Label
10	AES3/EBU in 2+	Din2
11	AES3/EBU in 2-	
3	SHIELD	
13	AES3/EBU out 1+	Dout1
14	AES3/EBU out 1-	
6	SHIELD	

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52-1335 Pin Assignment

D-Sub 15 - connector 4



Label	Type	Pin
Ain1	LINE in 1+	1
	LINE in 1-	2
	SHIELD	9
Ain3	LINE in 3+	4
	LINE in 3-	5
	SHIELD	12
Mic1	MIC 1+	7
	MIC 1-	8
	SHIELD	15

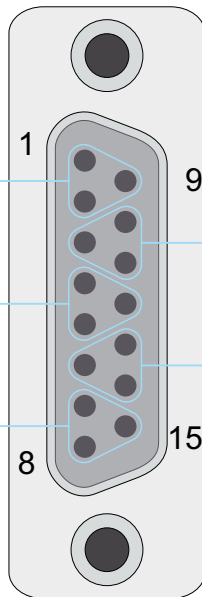
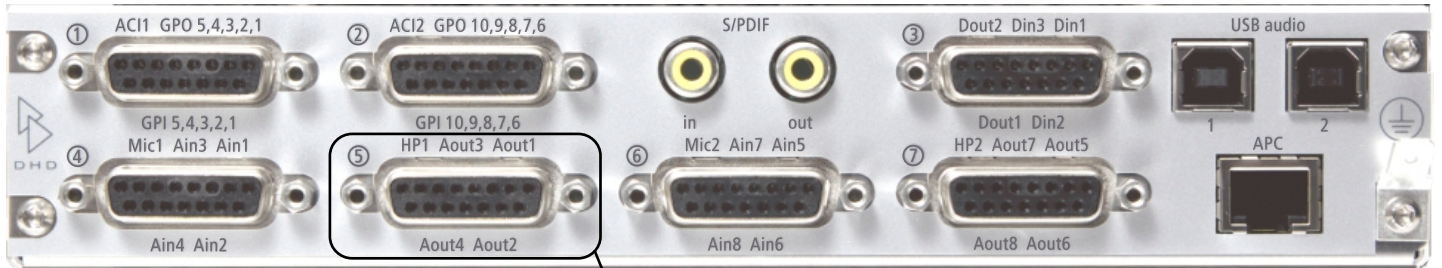
Pin	Type	Label
10	LINE in 2+	Ain2
11	LINE in 2-	
3	SHIELD	
13	LINE in 4+	Ain4
14	LINE in 4-	
6	SHIELD	

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52-1335 Pin Assignment

D-Sub 15 - connector 5



Label	Type	Pin
Aout1	LINE out 1+	1
	LINE out 1-	2
	SHIELD	9
Aout3	LINE out 3+	4
	LINE out 3-	5
	SHIELD	12
HP1	HP 1 L	7
	HP 1 R	8
	HP COM RETURN	15

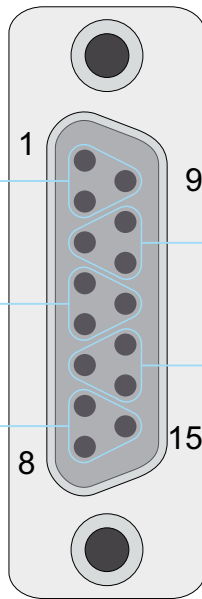
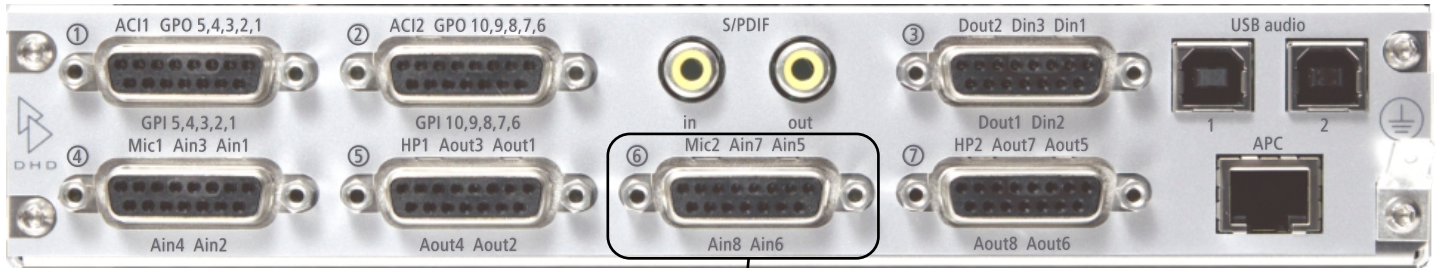
Pin	Type	Label
10	LINE out 2+	Aout2
11	LINE out 2-	
3	SHIELD	
13	LINE out 4+	Aout4
14	LINE out 4-	
6	SHIELD	

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52-1335 Pin Assignment

D-Sub 15 - connector 6



Label	Type	Pin
Ain5	LINE in 5+	1
	LINE in 5-	2
	SHIELD	9
Ain7	LINE in 7+	4
	LINE in 7-	5
	SHIELD	12
Mic2	MIC 2+	7
	MIC 2-	8
	SHIELD	15

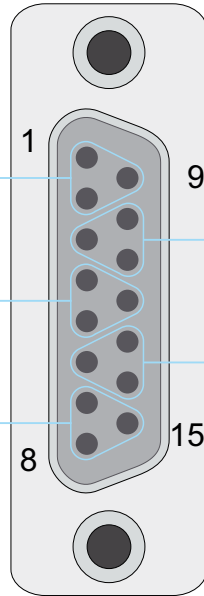
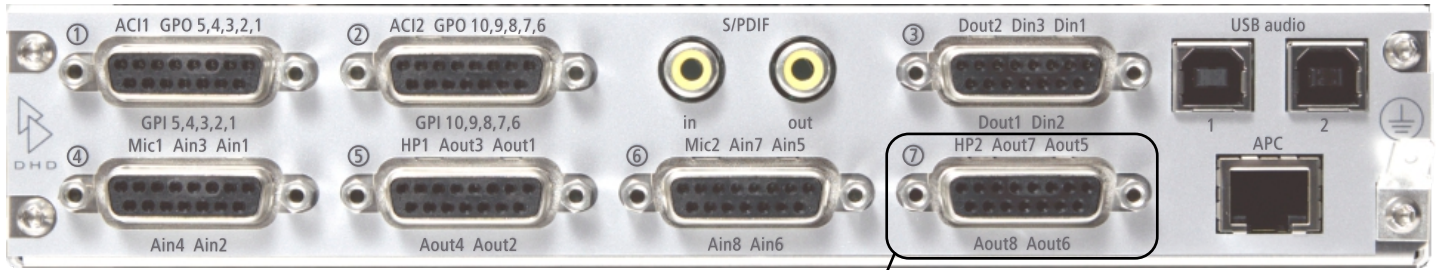
Pin	Type	Label
10	LINE in 6+	Ain6
11	LINE in 6-	
3	SHIELD	
13	LINE in 8+	Ain8
14	LINE in 8-	
6	SHIELD	

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52-1335 Pin Assignment

D-Sub 15 - connector 7



Label	Type	Pin
Aout5	LINE out 5+	1
	LINE out 5-	2
	SHIELD	9
Aout7	LINE out 7+	4
	LINE out 7-	5
	SHIELD	12
HP2	HP 2 L	7
	HP 2 R	8
	HP COM RETURN	15

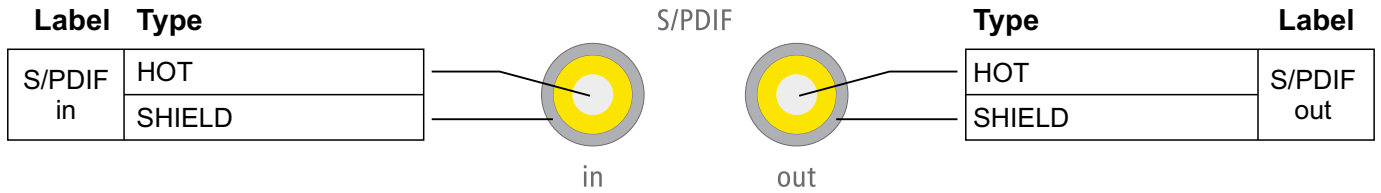
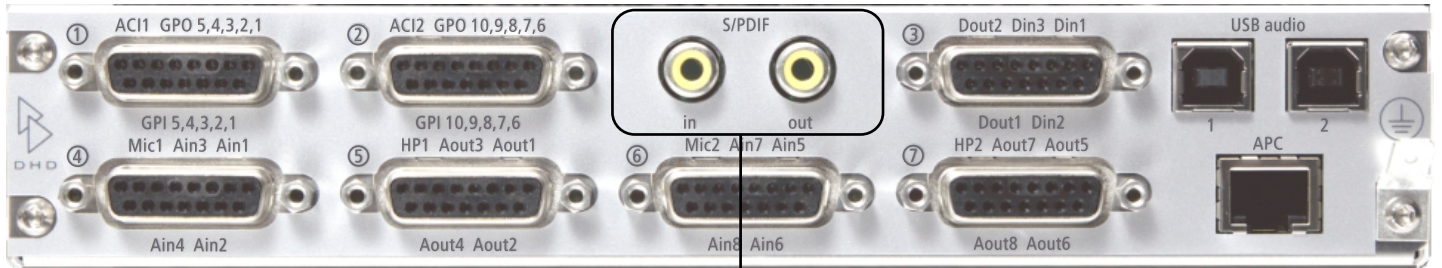
Pin	Type	Label
10	LINE out 6+	Aout6
11	LINE out 6-	
3	SHIELD	
13	LINE out 8+	Aout8
14	LINE out 8-	
6	SHIELD	

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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 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.



Important

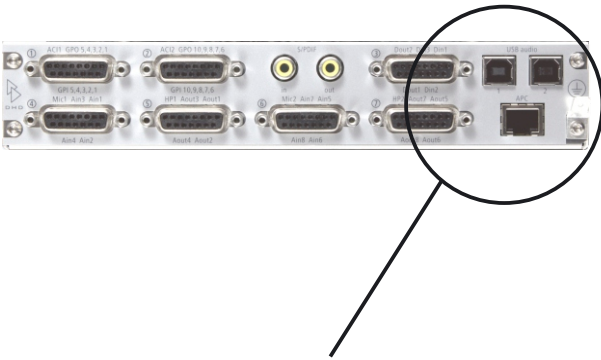
These USB audio ports can not be used for maintenance or control purposes.

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 or Mac USB audio device driver is used, no additional driver required

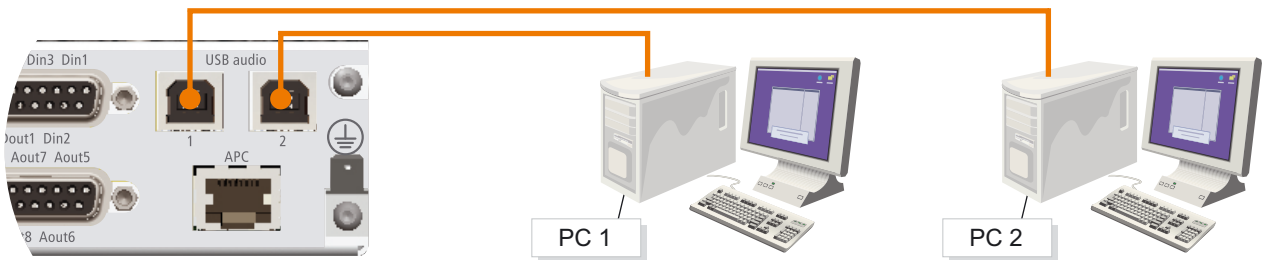
Two options for usage of USB audio are possible:

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



The following operation systems are supported for this option:

- Microsoft™ Windows™ 98SE/Windows Me (For Windows 98SE and Windows Me, the HID function is not fully functional with the default class driver.)
- Microsoft Windows 2000 Professional
- Microsoft Windows XP Home/Professional (For Windows XP, use the latest version of the USB audio driver available from the Windows Internet site, or apply Service Pack 1 or later.)
- Microsoft Windows Vista™ Business
- Microsoft Windows 7™ Professional
- Apple Mac OS X 10.10



- **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.)



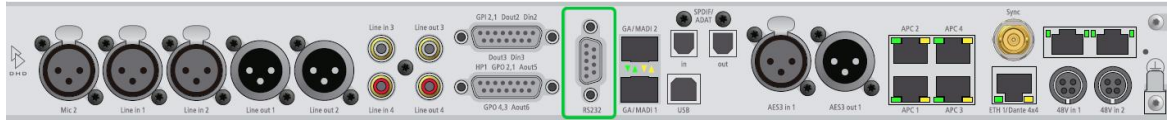
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Serial Connectors 52/XS2

52/XS2 Cores (52-1830, 52-1810)

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.



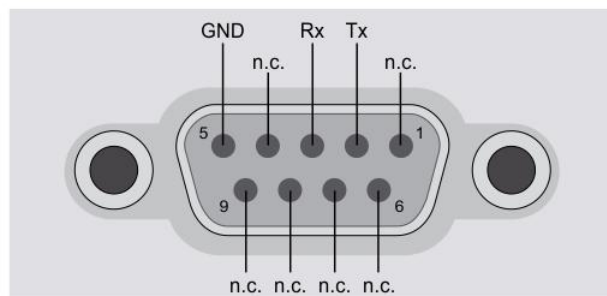
52-1830 XS2 Core - rear view with one serial RS232 port



52-1810 XS2 Core - side 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



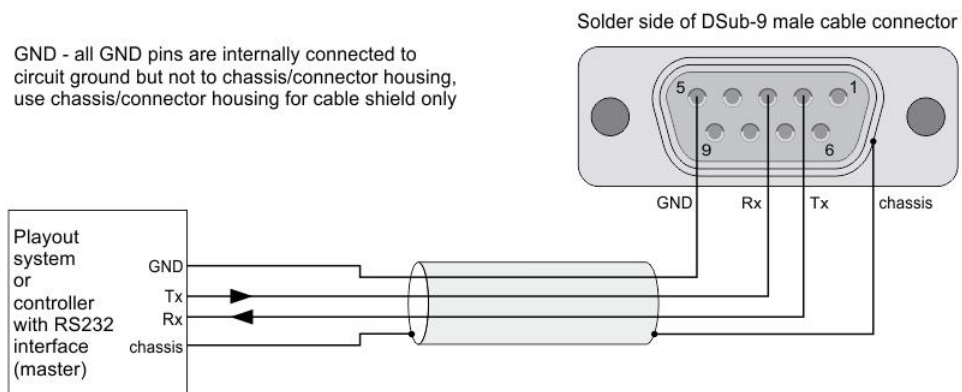
GND - all GND pins are internally connected to circuit ground but not to chassis/connector housing, use chassis/connector housing for cable shield only

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