

ANX44

Installation Manual



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Introduction

Dante audio network interface

The ANX44 is a Dante audio network interface for installation in the XMP44 professional modular audio system, featuring four input and four output channels. The installation of this optional module allows the XMP44 to be integrated into any DANTE enabled AV network and flawlessly transfer digital audio with any compatible product on the market.

The bidirectional audio exchange with the 4 SourceCon™ interface card slots allows distribution of the audio stream from the installed modules, allowing any radio tuner, media player, internet radio or other audio source distribution throughout your Dante network.

A truly plug & play solution is created when linking multiple DANTE enabled devices with each other on a standard IP network. It offers self-configuring solutions by using DHCP configuration, while the connection can be made to any existing 100 Mbit or 1 Gbit network infrastructure.

Bidirectional signal transmissions with a sampling frequency of 48 kHz and a bit depth of 24 bit are simultaneously possible on all in and output channels, while guaranteeing an incredibly low latency with a maximum up to 5 ms. (depending of the network occupation).

The ANX44 comes delivered as an installation kit, including all required accessories for integration into the XMP44 chassis. Installation shall be performed by qualified technicians.

INSTALLATION PRECAUTIONS



The installation of the ANX44 module may only be performed by qualified technicians.

Incorrect installation can lead to permanent damage or incorrect functioning of the equipment.

Packaging contents

- 1x ANX44 main interface board
- Required installation accessories:
 - 4 x M3 spacer (7.5 mm length)

Instructions

Mounting and connecting

Step 1:

ATTENTION

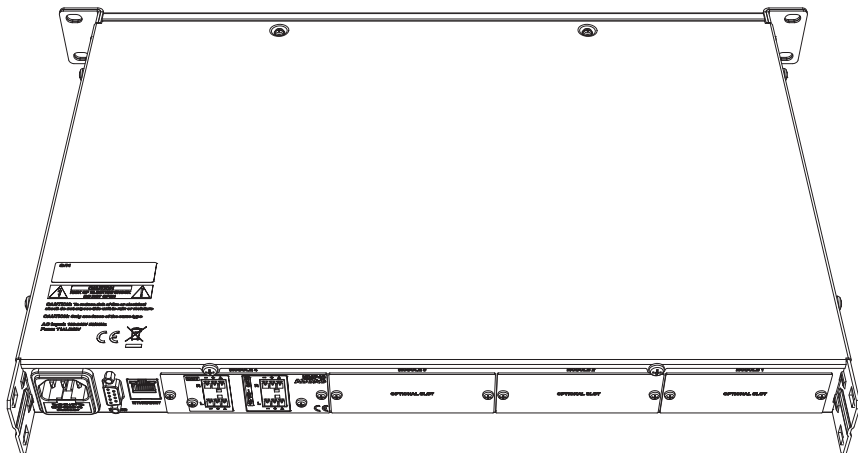


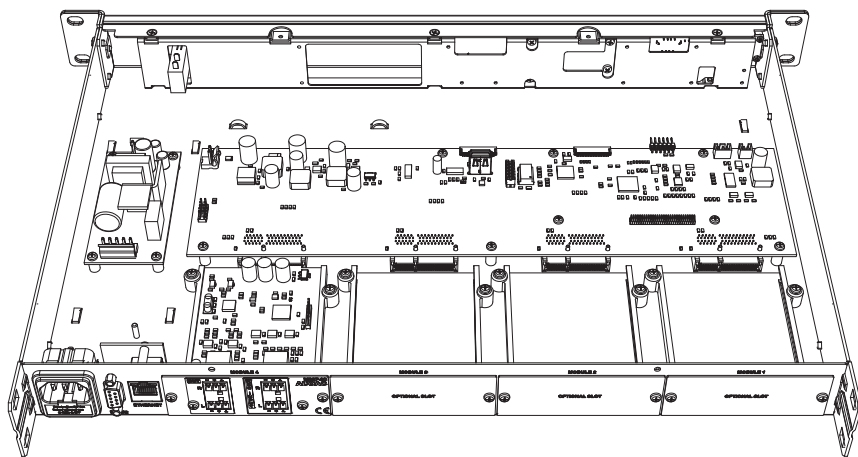
Make sure the audio system is powered off and the power inlet is disconnected from the mains power before the enclosure is opened.

Before removing the network interface card from its protective bag, we recommend touching the grounded metal chassis of the XMP44 (or any other grounded point) to prevent electrostatic discharges affecting the sensitive electronic components. It is recommended to avoid touching of the components on the circuit board directly.

Step 2:

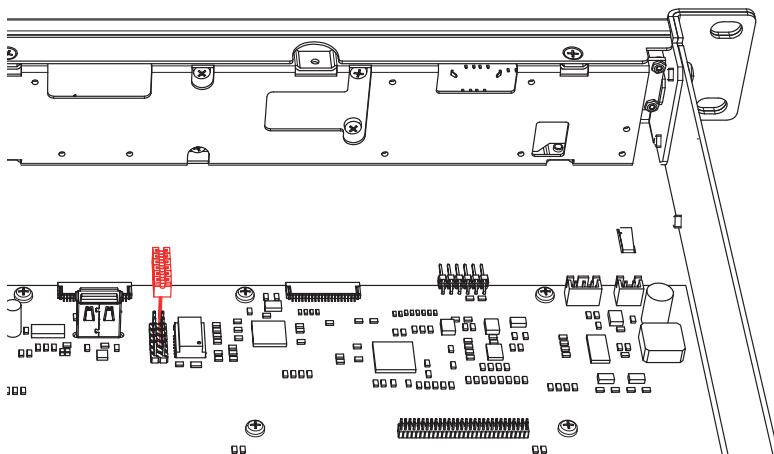
Open the audio systems' enclosure by carefully removing the screws from the top panel of the device. A total of 8 screws shall be removed, two screws on top, two screws on rear and two screws on each side. Once these screws have been removed, you should be able to lift the top panel of the device.





Step 3:

Remove all the jumpers (6x) on the main board of the XMP44, located besides the USB connector at the center position of the board.

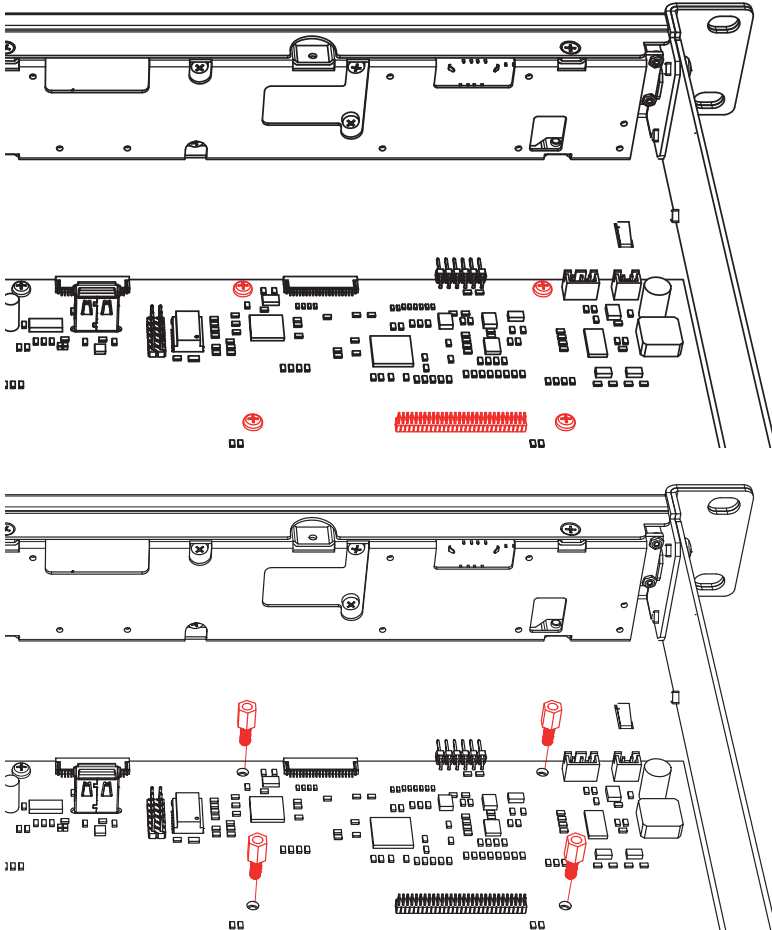


Step 4:

Remove the 4 screws located around the pin header 'P9' on the main board of the XMP44, and replace them with the supplied M3 spacers as indicated in the image below.

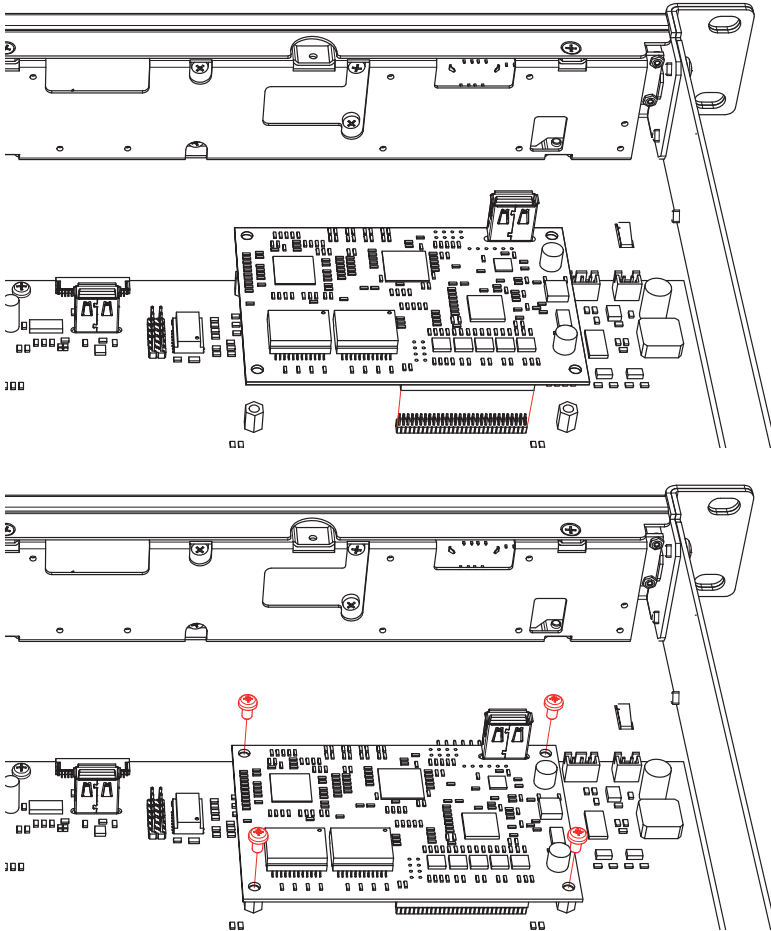
Keep the original removed screws for fixing the ANX44 interface board to the pin M3 spacers in the next step.

Clean the gold plated contact pins on the main board of the XMP44 with Isopropyl alcohol before installing the ANX44.



Step 5:

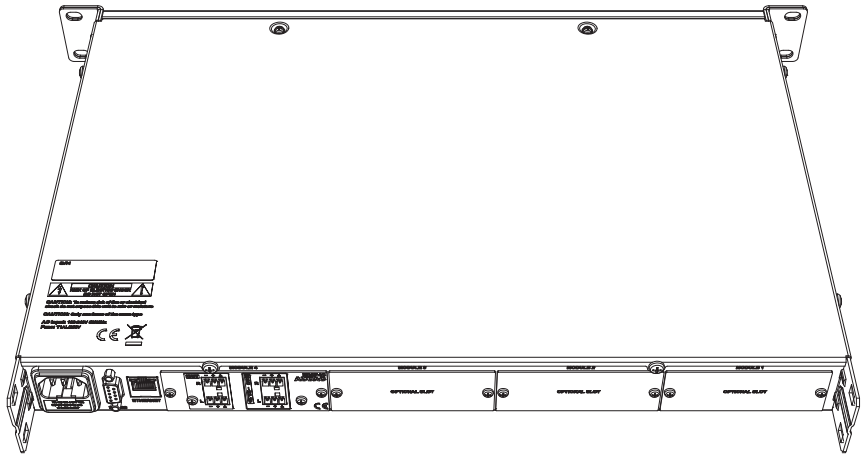
Insert the ANX44 network interface card to the audio system by placing the female pin–header on bottom of the ANX44 on the matching counterpart on the XMP44 main board. Make sure both male and female parts are well matching and the screw holes on ANX44 are perfectly aligned with the inserted spacers.



Once inserted and positioned correctly, the ANX44 can be secured to the XMP44 by inserting the 4 original screws (removed in step 3) to the M3 spacers.

Step 6:

Double check whether the connection between ANX44 network interface card and the XMP44 main board is well positioned and connected. If everything successful, the top cover of the audio system can be re-fitted by using the original screws (removed in step 2)



Step 7:

To guarantee the correct functioning of the system with the installed ANX44 Dante network audio interface, verify whether the current running software version is up-to-date and fully supporting the interfaces functions.

The running software version is indicated on the front display of the unit during power-up. The latest available software versions and updates can always be found on: <http://www.audac.eu/software>.

Result:

Your modular audio system is now equipped with a Dante network audio interface, allowing new networked audio possibilities.

For more information about the functions, the connections or Dante in general, refer to the quick start guide or Dante controller user guide.

Additional information

Technical specifications

Number of inputs	4
Number of outputs	4
Communication Protocol	Audinate DANTE
Sampling frequency	48 kHz
Sampling bit depth	24-bit
Latency	2 ~ 5 ms
Connection	RJ45 connector (on XMP44–
Network specification	Standard 100 Mbit or 1 Gbit network
Mounting	Integration in XMP44 chassis
Power consumption	1.5 Watt
Weight	0.045 Kg
Compatible devices (implementation)	XMP44 Professional modular audio system
Protocol (DANTE) compatible devices	https://www.audinate.com/products/dante-enabled