# ANIxx
# Installation Manual

AUDAC

www.audac.eu

# Introduction

## WaveDynamics™ Dante audio network interface

The ANIxx are Dante audio network interfaces for use with WaveDynamics™ supporting amplifiers, supporting two (ANI22) or four (ANI44) networked audio channels. The installation of this optional interfaces allows these amplifiers to be integrated into any DANTE enabled AV network and flawlessly transfer digital audio with any compatible product on the market, ranging from music sources to microphone systems, mixers, and many more.

These interfaces come delivered as a complete installation kit, including all required accessories for installation into the WaveDynamics™ amplifier chassis.

**INSTALLATION PRECAUTIONS**

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

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

# Packaging contents

- 1x ANIxx main interface board
- 1x ANIxx ethernet connection board
- 1x ANIxx ethernet connection cable
- Required installation accessories:
  - 2x Nylon snap–in spacer
  - 1x M3 spacer
  - 1x Spring washer
  - 1x M3 nut
  - 2x Cable tie
- USB memory drive (containing software and instructions)

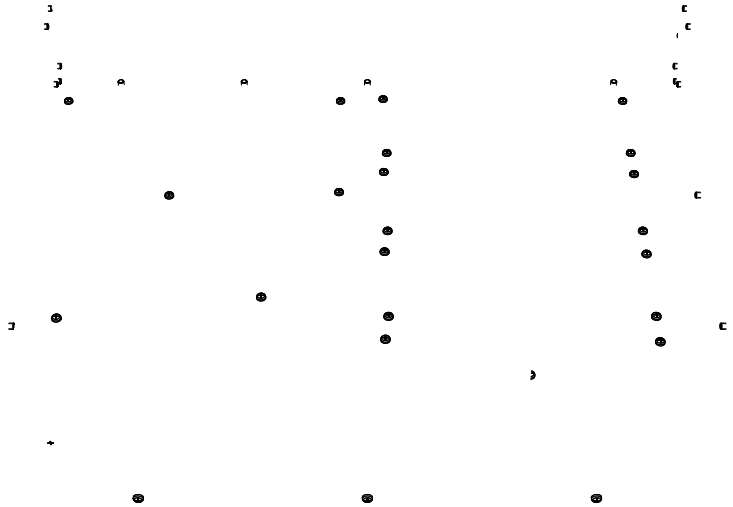
# Instructions
## Mounting and connecting

**Step 1:**

| ATTENTION |
| --- |
| Make sure the amplifier is powered off and the power inlet is disconnected from the mains power before the enclosure is opened. |

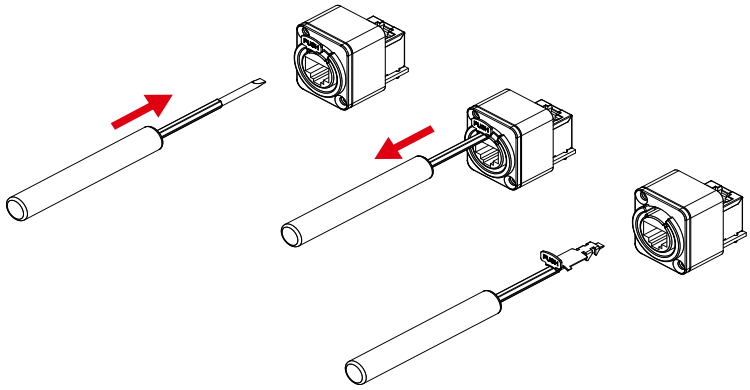
**Step 2:**

Open the amplifiers' enclosure by carefully removing the screws from the top panel of the device, and lifting it.

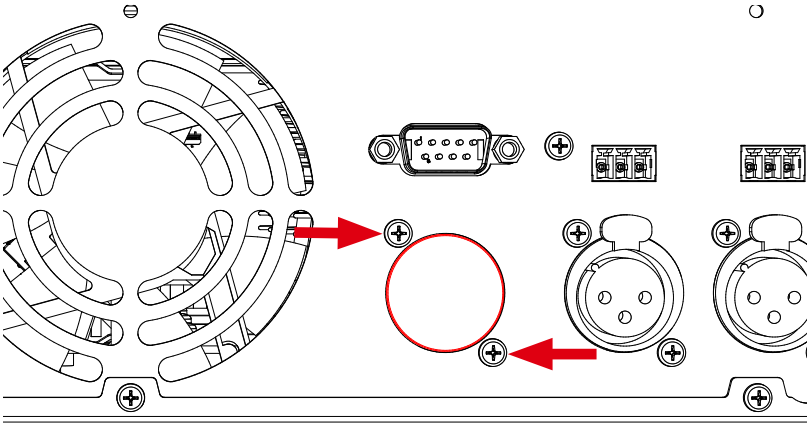


**Step 3:**

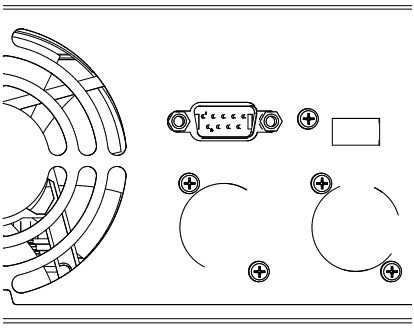
3.1. Remove the latch from the Ethercon compatible connector on the connection board by putting a flat screwdriver underneath the clip and pulling back screwdriver and latch together. This will simplify the assembly of the ethernet connection board in the back of the unit.



3.2. Remove the cover plate at the 'EXPANSION' hole on the back of the amplifier. The ethernet connection board of the ANIxx shall be installed on this position.



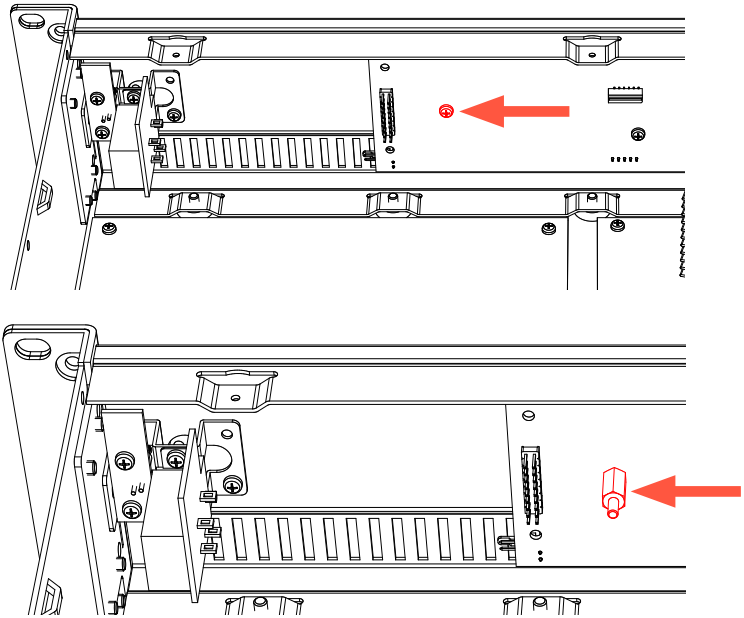
3.3. Insert the ethernet connection board from the inner side of the amplifier to the 'EXPANSION' hole, and fix it by inserting and tightening the two supplied screws. The latch removed from the connector in step 3.1 can now get inserted to the connector again by simply inserting and pushing it into the right position.



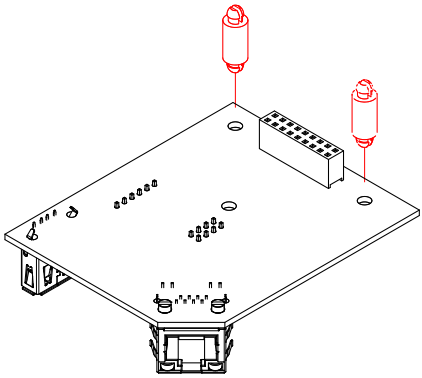
**Step 5:**

Mount the ANIxx main interface board into the amplifier:

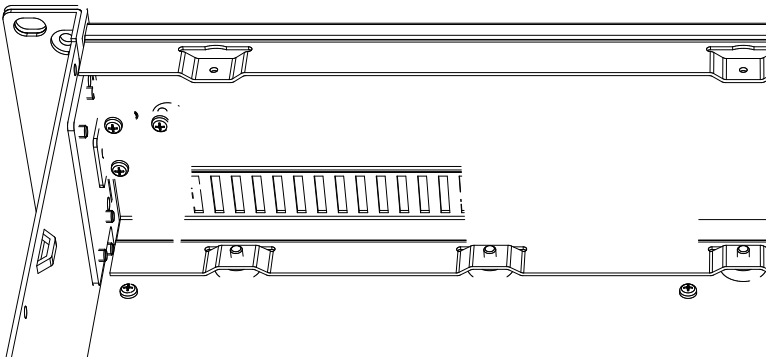
5.1. Remove the screw on the most left side of the front display board of the amplifier and replace it by the supplied M3 spacer.



5.2. Insert both supplied nylon snap–in spaces into the appropriate holes in the ANIxx main interface board as indicated in the below image.



5.3. Fix the ANIxx main interface board into the amplifier by simply clicking it onto the front display board using both snap–in spacers. Make sure the female pin–header on the main interface board is well positioned and matching the male counterpart on the front display board of the amplifier. Once positioned correctly, securing can be done by putting the supplied washer and nut and tightening it.



**Step 7:**

Double check whether all internal wires are well connected and well positioned. After all connections are successfully made, the top cover of the amplifier can be re–fitted and fixed uing the original screws.

**Step 8:**

To guarantee the correct functioning of the amplifier with the installed ANIxx Dante network audio interface, verify whether the current running software version fully supports this interfaces functions.

For SMA/SMQ amplifiers, software shall be version 1.17 or higher

The software version of your amplifier is shown on the front LCD display when powering on the amplifier. When it is not Dante ready, you can update your amplifier with supplied USB drive. Connect it at the front of your amplifier and update process will start automatically.

**Result:**

Your amplifier is now equipped with a Dante network audio interface, allowing new networked audio possibilties.

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 | ANI22 | 2 |
| | ANI44 | 4 |
| Number of outputs | ANI22 | 2 |
| | ANI44 | 4 |
| Communication Protocol | | Audinate DANTE |
| Sampling frequency | | 48 kHz |
| Sampling bit depth | | 24–bit |
| Latency | | 2 ~ 5 ms |
| Connection | | Ethercon compatible RJ45 connector |
| Network specification | | Standard 100 Mbit or 1 Gbit network |
| Mounting | | Integration in amplifier chassis |
| Power consumption | | 1.5 Watt |
| Weight | | 0.090 Kg |
| Compatible devices (implementation) | ANI22 | SMA Series WaveDynamics™ amplifiers |
| | ANI44 | SMQ Series WaveDynamics™ amplifiers |
| Protocol (DANTE) compatible devices | | https://www.audinate.com/products/dante–enabled |

# Notes

# Notes

# Notes