TAI-4

Owner's Manual

Introduction

Modular systems are just amazing. They are whatever you want them to be, as you are the one who's responsible for the number and kind of installed modules. It can be either a simple monophonic synthesizer or an extremely complex sound- and effect machine.

The TAI-4 is an audio interface for your modular system that brings the internal audio signals out of the system as well as external audio sources into the modular system. We are aware of the fact that many modules already have audio in- and outputs, so what's the reason behind making a special module with this functionality?

Each of the TAI-4s in- and output channel uses an audio transformer that galvanically isolates and balances the audio signal. Thus potential ground loops were prevented, the signal stays clear of electro-magnetic interferences. The TAI-4 should be the module of choice whenever you need to handle high-quality audio signals.

We are proud to welcome you as VERMONA TAI-4 user. Enjoy the module and be happy whenever using it during music production and performances.

Your VERMONA team

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Installation

The TAI-4 is compatible to eurorack modular systems and has to be connected to the A-100 system bus for operation.

Follow the safety instructions and warnings stated in your A-100s manual when installing the module.

Before installing the module be sure to disconnect the modular system from mains!

- Connect the 10-pin connector on the TAI-4s rear to the ribbon cable that comes with the TAI-4. The color marked stripe on the cable is oriented to the bottom. (see illustration 1)
- Connect the other end of the ribbon cable to the 16-pin connector on the eurorack style power distribution board of your modular system. The colored stripe has to be oriented to the negative 12 volt supply line (bottom).
- Use the screws that came with your TAI-4 to mount the module into the modular frame.
- Now connect the modular system to the mains and switch it on.

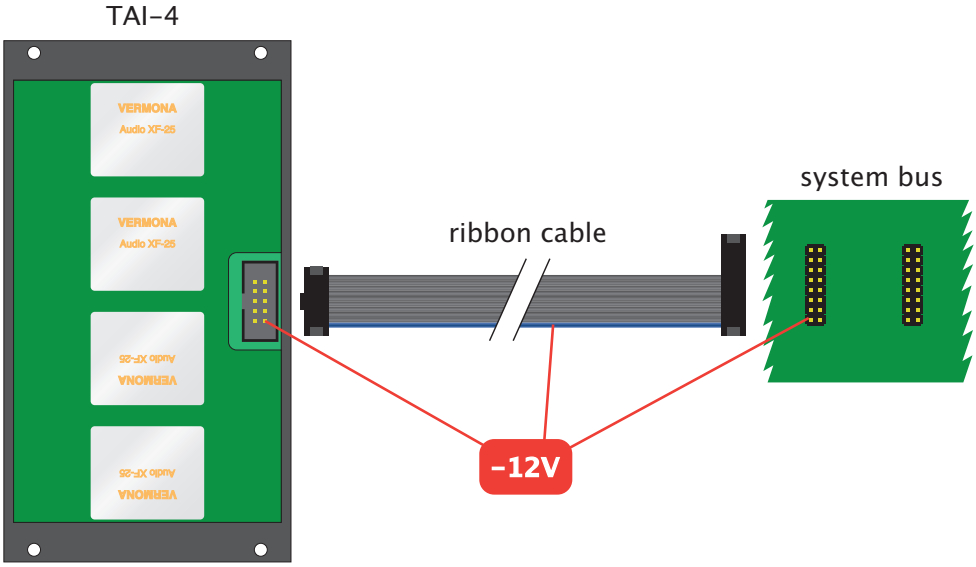
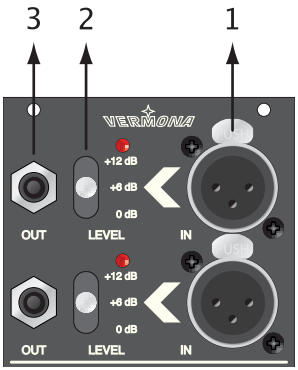


Illustration 1: Connecting the TAI-4 to the system bus

Control Surface Features

Input Section

The input sections features two identical input channels.



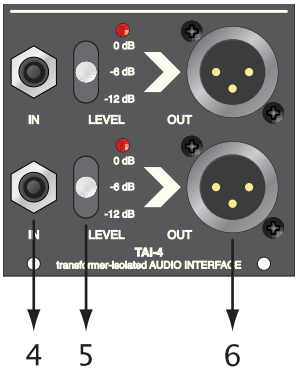
(1) **IN**
balanced female XLR input

(2) **LEVEL** switch with **CLIP** LED
With this switch you can set the appropriate input level.
If it is set to "0dB" the channels output level equals the input level. Settings "6dB" and "12dB" increases the level by the corresponding value.
The CLIP LED indicates too high input levels. The signal doesn't distort as soon as it illuminates, there is still some headroom.

(3) **OUT**
unbalanced 3,5mm jack output

Output Section

The output section features two identical output channels.



(4) **IN**
unbalanced 3,5mm input jack

(5) **LEVEL** switch with **CLIP** LED
With this switch you can decrease the input level.
If it is set to "0dB" the channels output level equals the input level. Settings "-6dB" and "-12dB" decrease the level by the corresponding value.
The CLIP LED indicates too high input levels.

(6) **OUT**
balanced male XLR output

Specifications

Input Section	
Frequency Range	20Hz - 20kHz (±0,5dB)
max. Input Level	+12dBu (600Ω)
max. Output Level (jack)	+22dBu (600Ω)
Amplification	+6dB / +12 dB
Output Section	
Frequency Range	20Hz - 20kHz (±0,5dB)
max. Input Level (jack)	+22dBu (10kΩ)
max. Output Level	+12dBu (600Ω)
Reduction	-6dB / -12dB
Audio Properties	
Signal-To-Noise ratio	> 90dB
THD+Noise	< -80dB
Product Properties	
Power Consumption	20mA
Measurements	3HE, 14TE (70,8mm x 128mm x 56mm)
Weight	320g

Declaration of Conformity

We declare under our sole responsibility that this product is in conformity with the following standards or standardization documents in attention of operation conditions and installation arrangements acc. to operating manual:

EN61000-3-2, EN 61000-3-3, EN 55013, EN 55020, EN 60065 according to the provisions of the regulations 2004/108/EG and 2006/95/EG.

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