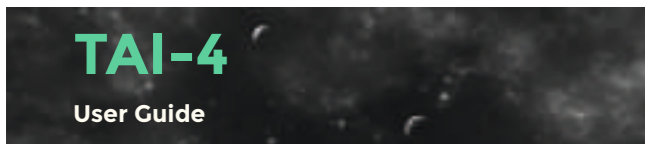




ELEKTROAKUSTISCHE MANUFAKTUR



## 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-4's 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.

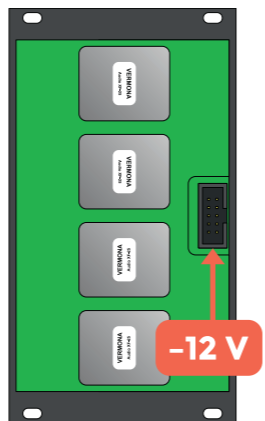
Your VERMONA crew from the Elektroakustischen Manufaktur, Erlbach

## Installation

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

**Follow the safety instructions and warnings stated in your modular cases' manual when installing the module!**  
**Before installing the module be sure to disconnect the modular system from mains!**

1. Connect the 10-pin connector on the TAI-4's rear to the ribbon cable that comes with the module. Make sure its color coded side shows toward **-12 volts**.
2. Connect the ribbon cable's other end to the 16-pin connector on your eurorack's system bus board of your modular system. The colored stripe has to be oriented to **-12 volt** as well.
3. Use the screws and washers that came with your TAI-4 to mount the module into the modular frame.
4. Now, connect the modular system to the mains and switch it on.



## Control Surface Features

### Input Section

The input section 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's set to **0 dB** the channels' output level equals its input level. Settings **6 dB** and **12 dB** increases the level by the corresponding value. The CLIP LED indicates if the input level is too high. The signal doesn't distort when it illuminates, TAI-4 offers still some headroom.

- 3 **OUT:** Unbalanced 3.5-mm jack output.

### Output Section

The output section features two identical output channels.

- 4 **IN:** Unbalanced 3.5-mm jack input.
- 5 **LEVEL** switch with CLIP LED:

With this switch you can reduce the input level. If it's set to **0 dB**, the channel's output level equals the input level. Settings **-6 dB** and **-12 dB** decrease the level by the corresponding value. The CLIP LED indicates if the input level is too high.

- 6 **OUT:** Balanced male XLR output.



## Specifications

### Input Section

Frequency Range .....	20 Hz ... 20 kHz (±0.5 dB)
max. Input Level (XLR) .....	+12dBu
Input Impedance (XLR) .....	8.5 Ω @ 1 kHz
max. Output Level (jack) .....	+22 dBu
Output Impedance (jack) .....	100 Ω
Amplification .....	+6 dB/+12 dB

### Output Section

Frequency Range .....	20 Hz ... 20 kHz (±0.5 dB)
max. Input Level (jack) .....	+22 dBu
Input Impedance (jack) .....	100 kΩ
max. Output Level (XLR) .....	+12 dBu
Output Impedance (XLR) .....	110 Ω
Attenuation .....	-6 dB/-12 dB

### Audio Properties

Signal-To-Noise ratio .....	> 90 dB
THD+Noise .....	< -80 dB

### Maximum Power Consumption

+12 volts .....	20 mA
-12 volts .....	20 mA

### Dimensions and Weight

Width/Height .....	14 HP/3 U
Depth .....	42 mm
Weight .....	320 g

HDB electronic GmbH  
Badesteig 20  
08258 Markneukirchen  
Germany

Phone +49 (0) 37422 4027-0  
Email info@vermona.com  
Web www.vermona.com

