



# MTX48

## 4 Zone Audio Matrix

### ► Features

- 4 x 8 Audio Matrix System
- 2 Mic inputs with Phantom & Priority
- 4 Stereo line inputs
- 4 Stereo balanced zone outputs
- Fully functional integrated web server
- iPad & iPhone control apps
- TCP/IP and RS232 control ports
- Optional wall panels for audio input & control
- Optional paging console

### ► Applications

- Restaurants, Clubs, Bars
- Theaters, Hotels
- Office buildings,
- Conference facilities, Houses of worship
- Professional offices, Public buildings
- Private houses, Libraries



The MTX series are AUDAC's series of very cost efficient audio matrix systems for a wide area of Multi-Zone audio applications, offering two different models with the same features and possibilities, but with different zone capacities.

The MTX48 is the four-zone version of the MTX series, containing two balanced microphone inputs with priority function, phantom power possibility and three-band tone control. Four stereo line-level inputs are provided where to any line-level music source such as a CD-player, Tuner or MP3 player, ... can be connected. The other two inputs of the matrix are the additional wall panel inputs for both line and microphone signals.

What makes the MTX system superior to all other matrix systems in their range, are the advanced control possibilities. The MTX can be controlled by means of additional control panels for every specific zone, with or without additional audio inputs. It also features a fully functional web based interface whereby the audio system can be controlled and configured from any device connected in your LAN network by just using a standard web browser, while the apps for iPhone and iPad enable you to control the MTX out of your pocket. The RS232 control port makes it possible to control it by means of any external equipment such as home & industrial automation systems supporting RS232.

The front panel of the MTX shows a Scroll-Push control™ button with indication LED for every zone which controls all the zone's settings. A built-in PFL loudspeaker makes it possible to pre-listen every channel without the need for a headphone.

The balanced line-level zone outputs are performed using 3-pin Euro-terminal block connectors, each of them accompanied with an RJ45 connector for connecting additional wall panels for that zone.

A 24 volts power connection makes it possible to keep the MTX running on emergency power, even if the mains power is shut down.

**Compatible optional peripherals:**  
 WLI18/22: Wall Panel Line input  
 WMI18/22: Wall Panel Microphone Input  
 MWX43/45: Wall Panel controller  
 MWX65: All-in-one Wall Panel

### ► Specifications

| SYSTEM SPECIFICATIONS   |        |  |        |
|---|--------|--|--------|
| Inputs  |        | 2 x Balanced Microphone (XLR)<br>4 x Stereo Unbalanced Line (RCA)<br>4 x Wall panel input (RJ45) |        |
| Outputs   |        | 4 x Stereo Balanced Line<br>(3-pin Euro Terminal Block - 3.81 mm)                                |        |
| Input sensitivity Mic   |        | 0 dB ~ -50 dB  |        |
| EQ Input Mic 1-2  | High   | 12.5 kHz   | ±15 dB |
|   | Mid    | 2.5 kHz  | ±15 dB |
|   | Low    | 80 Hz  | ±15 dB |
| Phantom power Mic   |        | 15 V DC  |        |
| Input sensitivity Line  |        | -14 dB ~ +9 dB   |        |
| Output impedance  |        | 51 Ohm   |        |
| Output level  |        | -70 dB ~ 0 dB  |        |
| EQ output   | Treble | 2.5~20 kHz   | ±14 dB |
|   | Bass   | 100 Hz   | ±14 dB |
| Frequency response  |        | 20 Hz - 20 kHz   |        |
| Signal / Noise ratio  | Mic    | > 80 dB  |        |
|   | Line   | > 100 dB   |        |
| THD + N   | Mic    | < 0.05 dB  |        |
|   | Line   | < 0.01 dB  |        |
| Crosstalk   |        | -85 dB   |        |
| Control possibilities   |        | Front panel<br>RS232 / TCP/IP<br>Wall panel (RS485)<br>iPhone / iPad / Integrated website        |        |
| Power supply  |        | 100 ~ 240 V AC / 50 ~ 60 Hz<br>24 V DC (emergency power)   |        |
| Power consumption   |        | 9 Watt   |        |
| PRODUCT FEATURES  |        |  |        |
| Dimensions (Width x Height x Depth)   |        | 482 x 88 x 335 mm  |        |
| Weight net  |        | 4.8 Kg   |        |
| Unit height   |        | 2 HE   |        |
| SHIPPING & ORDERING   |        |  |        |
| Packaging   |        | Carton box   |        |
| Shipping weight and volume  |        | 6.1 Kg - 0.047 Cbm   |        |
| *AUDAC reserves the right to change specifications without notice: this is part of our policy to continually improve our products |        |  |        |

## ► Architect's and Engineers' Specifications

The Multi-Zone audio matrix system shall contain four independent controllable output zones and 6 audio inputs which can be patched freely to every zone. In addition to these direct audio inputs, connectivities shall be provided to externally add a Microphone and Line level audio source to every output zone.

Two of the direct audio inputs shall be balanced and performed with an XLR connector, have a three-band tone control, an input level which is seamlessly adjustable between Microphone (-50 dB) and Line (0 dB) level, each of them equipped with phantom power and containing the possibility to enable priorities. The other four inputs shall be unbalanced stereo inputs performed with RCA connectors.

The stereo zone outputs shall be balanced and performed with Terminal Block connectors.

The matrix system shall include an RS-232 port, wall panel connection ports for every zone which are capable of handling RS-485 signals and patchable with additional audio input units and an Ethernet port whereby it can be controlled from any device connected in an TCP/IP network.

The system shall include an integrated webserver on which a fully functional web-based user interface is running, which can be accessed through TCP/IP without any special software requirement. The user interface shall be password protected on two different levels (Administrator and User level). Apps for controlling the system by means of mobile devices (Smartphones & Tablets) shall also be available.

The main screen of the graphical interface shall provide an overview of the outputs with bar graphs, VU meters and specific assigned names for all in- and outputs, while giving immediate access to standard functions such as: Changing the output volume, Changing the zone routing and Mute/Unmute the outputs.

Additionally, a separate bus to connect external paging consoles shall be provided whereof the announced message and its volume is selectable for every individual zone. Just like the priority Enabling/Disabling and volume selection can be done for every zone separately.

Standard functions of the device shall be controllable by additional connected wall-panels and mobile devices, while the configuration settings of the device shall be controllable by third party devices using the TCP/IP, RS-232 and RS-485 connectivity possibilities.

The power supply shall be a switching type operating on a 100~240 V AC / 50~60 Hz mains network. Additionally, an emergency power inlet shall be provided to keep the system running on 24 Volt emergency power when the mains power is shut down.

It shall be equipped with a removable power cord having a standard shuko (CEE 7/7) AC plug. The connector on the amplifier chassis shall be a fused IEC C14 type and the emergency power inlet shall be performed using a 2-pin terminal block connector

The amplifier chassis shall be a two rackspace steel constructed 19" housing. Depth from mounting surface to rear supports shall be 320 mm and the weight shall not exceed 4.8 Kg.

## ► Block diagram

