



# 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 variety 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, equipped with two balanced microphone inputs with priority function, phantom power possibility and three-band tone control. There are also four stereo line-level inputs to which 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, its fully functional web based interface or the AUDAC Touch app. RS232 makes it possible to control it through home & industrial automation systems, while a contact input mutes the overall system in case of contact output from emergency or other prioritary systems.

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 comprise of 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:

- WL118: Wall Panel Line input
- WMI18: Wall Panel Microphone Input
- MWX45: Wall Panel controller
- MWX65: All-in-one Wall Panel

## ► Specifications

SYSTEM SPECIFICATIONS			
Inputs		2 x Balanced Microphone (XLR) 4 x Stereo Unbalanced Line (RCA) 4 x Wall panel input (RJ45) Priority mute contact	
Outputs		4 x Stereo Balanced Line (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 RS232 / TCP/IP Wall panel (RS485) iPhone / iPad / Integrated website	
Power supply		100 ~ 240 V AC / 50 ~ 60 Hz 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		4.75 Kg	
Unit height		2 HE	
SHIPPING & ORDERING			
Packaging		Cardboard box	
Shipping weight and volume		6.02 Kg - 0.035 Cbm	
*AUDAC reserves the right to change specifications without notice: this is part of our policy to continuously improve our products.			

## ► Architects' and Engineers' Specifications

The Multi-Zone audio matrix system shall comprise of 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 the possibility to enable priorities. The other four inputs shall be unbalanced stereo inputs with RCA connectors.

The stereo zone outputs shall be balanced and equipped 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 muting/unmuting the outputs.

Additionally, a separate bus to connect external paging consoles shall be provided whereof the announced message and its volume is selectable for each 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 via additional connected wall-panels and mobile devices, while the configuration settings of the device shall be controllable via 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 with 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 comprise of 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 4.75 Kg.

## ► Block diagram

