

1. General description

MODUS DMX Audio Player can be used to play music, voice communicates, sound effects, etc. in MP3 and WAV formats. It can play up to 255 files stored in 99 catalogues.

The device is equipped with a stereophonic D-class 2x15 W amplifier that can power lower-ohm speakers or sets with combined resistance no lower than 4 ohms.

Trigger connector allows to connect an external triggering device, e.g. a button, motion detector, reed switch, etc. and activate the device functions with it.

A built-in relay enhances the controller, allowing to activate \ deactivate external devices with maximal load of 5 A and voltage of 24 V, synchronically with the played audio file or independently, using DMX signal.

The device works in three modes:

- DMX mode, where with the use of DMX signal, it is possible to choose a catalogue, track, control volume, start and stop playback, control the galvanically isolated relay and trigger an additional output (EXT. OUT).

- STANDALONE mode, where audio files are automatically played once the power is switched on. It is possible to set the desired volume and relay state.

- MANUAL mode, where audio files are played once TRIGGER output is activated/shorted, e.g. with an external button or motion detector. It is possible to set the desired volume, relay state and playback style.

The device comes in three casing versions:

low-profile casing that can be mounted on a DIN 35 mm rail, a hermetic casing for outdoor use, and as a separate PCB for individual installation (e.g. in an interactive scenery, info kiosk, etc.) The device features reverse polarity protection in input voltage, as well as surge protector.

The device is perfect for using as an interactive exposition guide, communicator, audio player in an interactive scenery, a piece of Digital Signage system, audio effect player in an Escape Room, theme park, part of exhibition pieces, info kiosk, etc. In all situations, where compact dimensions, reliability and quick sound playback triggered with the use of external signal or button are needed.

The device can also be used as:

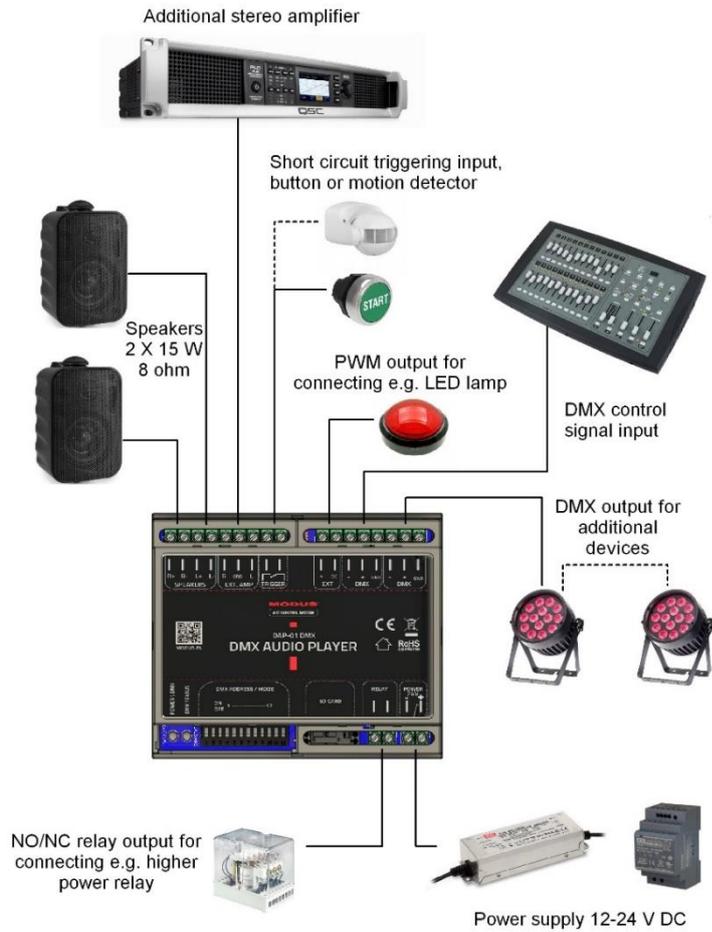
- time switch triggered with a button or DMX512 signal
- relay output controlled with DMX512 signal
- player for signals with specified frequency, saved from an audio file generator.

2. Output description

1. Power connector (GND, +12-24*VDC)
2. Relay connector
3. Mini SD card slot
4. Configuration switches
5. Boot/Error indicator
6. Power/DMX indicator
7. DMX signal input/output
8. EXTERNAL OUT
9. TRIGGER input
10. External amplifier output
11. Speaker output



3. Schematic diagram:



4. Technical parameters:

Power supply: - 12-24VDC / minimum 2A

Supported audio file formats: MP3 11172-3 and ISO13813-3 layer3, WAV

Sampling frequency: 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48 kHz

SD card: max. 32GB, FAT16, FAT32

Line in: for additional amplifier:
asymmetric, adjustable output for right and left channel

Speaker outputs: right and left channel outputs with max. power approx. 15W, 4 or 8 ohms

EXT connection: output allowing highlighting of the triggering button, or in DMX mode, it can be used as an additional control output

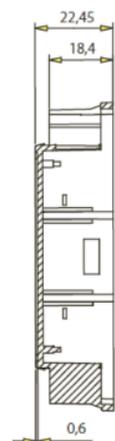
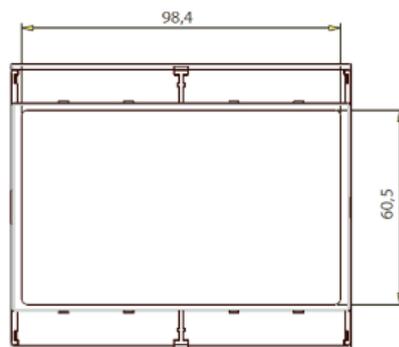
TRIGGER connection: input starting track playback in STANDALONE mode (for connecting a button for example)

DMX512: DMX512 signal input/output

Relay output: NC / NO **max. load 5A / 24V**

1. Dimensions:

DIN/TH/TS 35 casing



5. Contacts, additional information:

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