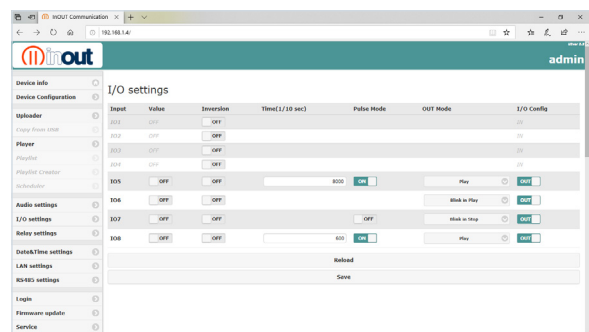# NP-2

Network Audio Player

NP-2 is an amplified audio player that simplifies the creation of interactive projects, didactic pathways, informative totems for exhibitions, musical scenarios, commercial spaces, relax areas and many more.

Standard DIN clamp housing means that it can be used with different automation systems: PLC, industrial computers, touch screen operated terminals, automatic distributors, commercial promotion systems and various uses on switchboards.

It includes:

- Interactive audio player with microSD card slot;
- Class D Amplifier mono 15W;
- 8 individually configurable logic ports, both as inputs (for sequential playback of audio files) for switches or touch-sensor, or as outputs for external relay activation;
- Ethernet LAN 10/100 port for I/O configuration, event schedule, track selection and control remote by 3rd parts systems;
- RS485 serial port for optional remote control;
- Audio Mixer for external stereo/mono source.

Main features

Main voltage of 12VDC (PSU included)

ARM Cortex® Processor

Multidrive Storage, with files kept in removable microSD-HC flash memory (FAT 32).

Preamplified L+R stereo audio input for external-music source

Preamplified L+R stereo audio output (0dB).

Amplified mono audio output 15W

8 logic on/off ports individually configurable as input or output

1 programmable relay output

Daily scheduling function
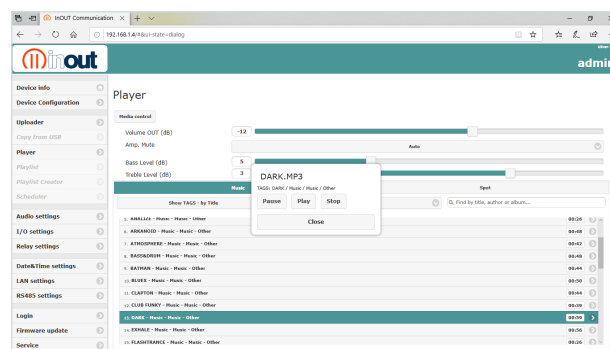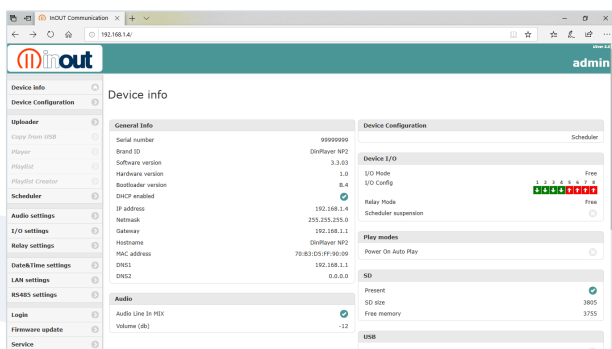
LAN Ethernet port

Firmware Upgrade with web page

Via Nobel, 10
30020 Noventa di Piave Venice ITALY

Tel. +39 0421 571411
Fax +39 0421 571480

Email: info@inout-digital.com
Site: www.inout-digital.com

Audio and port connection

1. Stereo audio output
2. Ethernet LAN 10/100Mbit/s port
3. Speakers output
4. RS-485 serial port
5. Relay contacts output
6. Power supply

Front panel and I/O connection

A. Host USB port
B. MicroSD card slot
C. Device USB port
D. Status LED
E. Power LED
F. Stereo audio input
G. Logic inputs and outputs

Technical Characteristics

Input and Output

‣ Preamplified L+R stereo audio input for external music source with mixer function
‣ Preamplified L+R stereo audio output (0dB).
‣ Amplified mono audio output 15W.
‣ 8 logic on/off ports individually configurable as input or output
‣ Logic inputs for playlist or file activation or player control (play/stop/next/previous/volume).
‣ Logic outputs for the simple control of external devices (relays, etc.)
‣ Programmable relay output NO/NC
‣ RS485 control port for remote control
‣ 1 x USB 2.0 type A connector device(host) for Flash pendrive.
‣ 1 x MicroSD port (Content Storage)
‣ 1 x Ethernet LAN 10/100 port for I/O configuration,1 event schedule, track selection and remote control systems

Functions

‣ Supported lossy audio formats: MP3
‣ Internal DSP with mixing function for all audio inputs.
‣ WEB Server for configuration (LAN settings, clock, etc.)
‣ Scheduling function daily event.
‣ 8 logic on/off ports individually configurable as input or output
‣ Playlist creation
‣ LAN TCP/IP control
‣ RTC - Integrated real time clock with backup battery schedule)
‣ Firmware Upgrade with web page
‣ Keyboard managements (12 keys).
‣ Size: 90x62x36 mm. / DIN Rail (EN 60715) mounting, 2 modules according to DIN 43880.
‣ Weight: 85 gr.
‣ Operating temperature: 0° to +60°C.
‣ Storage temperature: -20° to +60°C.