NP-10

Network Audio Player

NP-10 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. NP-10 is interactive, so it's easier to capture the attention of people moving nearby using jingles, slogans or a series of notices activated by a small infrared sensor. A highly technological device, yet with the very small dimensions of 115 x 115 x 22 mm.

It includes:

‣ Interactive audio player with microSD card slot;

‣ Class D Amplifier stereo 20+20W;

‣ 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;

‣ Reserved input for infrared motion sensor;

‣ Ethernet LAN 10/100 port for I/O configuration, events schedule, track selection and control remote by 3rd systems;

‣ RS485 serial port for optional remote control;

‣ Audio Mixer for external stereo/mono source.

Main features

Main voltage of 12÷24VDC (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).

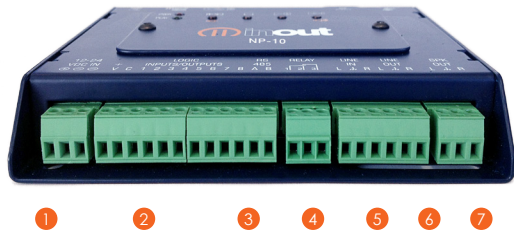Amplified stereo audio output 20W+20W.

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

1 programmable relay output

LAN Ethernet port

Firmware Upgrade via USB flash pen drive.

inout COMMUNICATION SYSTEMS

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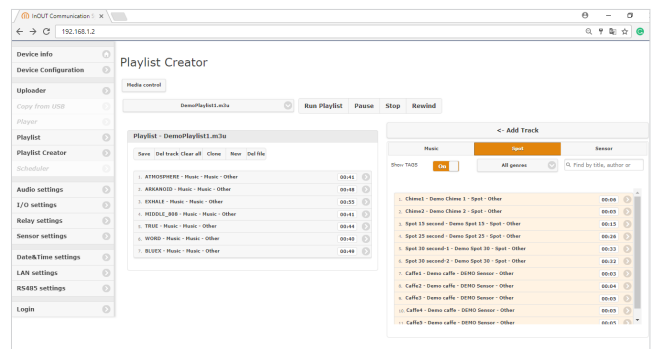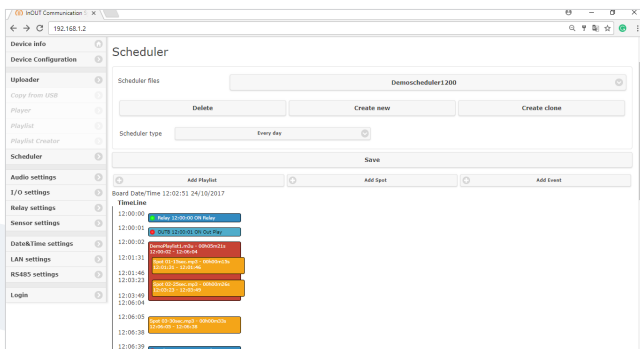Website: www.inout-digital.com

Audio and I/O connection

1. Power supply
2. Logic inputs and outputs
3. RS-485 serial port
4. Relay contact output
5. Stereo audio input
6. Stereo audio output
7. Speakers output

Front panel connection

A. Motion sensor input
B. Ethernet 100Mbit/s port
C. Host USB port
D. MicroSD card slot
E. Device USB port
F. Physical controls
G. Status LEDs

Technical Characteristics

Input e Output

- Preamplified L+R stereo audio input for external music source with mixer function
- Preamplified L+R stereo audio output (0dB).
- Amplified stereo audio output 20W+20W.
- 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
- Motion sensor input
- RS485 control port for remote control (play / stop / next / previous / volume)
- 1 x USB 2.0 type A connector device(host) for Flash pen drive.
- 1 x MicroSD port (Content Storage)
- 1 x Ethernet LAN 10/100 port for I/O configuration, events schedule, track selection and remote control systems
- 4 buttons: play, stop, track forward, track back and output volume.

Functions

- Supported lossy and loseless audio formats: MP3.
- Internal DSP with mixing function for all audio inputs.
- WEB Server for configuration (LAN settings, clock, etc.), scheduling function (repetitive or daily/ weekly events).
- Playlist creation
- LAN TCP/IP control
- RTC - Integrated real time clock with backup battery (schedule)
- Internal not volatile NOR Flash for customizations and the storage of E-Files or repetitive messages (chime, etc.)
- Firmware Upgrade via USB 2.0 flash pen drive
- DIP switches for factory reset and configuration recall;
- Keyboard managements (16 keys).
- Size: 115x115x22 mm.
- Weight: 370 gr.
- Operating temperature: 0° to +60°C.
- Storage temperature: -20° to +60°C.