



2N® Net Audio Decoder

Your gateway to the world of high fidelity IP-audio and its endless possibilities. Thanks to the 2N® Net Audio Decoder you can simply send music over any distance. This is because the decoder receives and converts the IP audio signal to the classic analogue form. Moreover, it has an integrated amplifier and the sound is synchronous in all speakers.



Schools and campuses
Amusement parks
Office buildings
Health care

Sports facilities
Shopping centres
Railway stations, airports
Other public spaces

Quick installation

Connect the encoder to your existing LAN/WAN network and easily set it all up in the software application. There is no tricky programming or installation of cabling to worry about.

Easy operation

Take control of your IP audio system from your computer, tablet or mobile phone. Easily schedule the broadcasting of pre-recorded tracks, adjust the volume and monitor device operation.

Creating separate broadcast zones

Broadcast diverse content to as many as 100 different destinations; Exactly the way you need to. Moreover, the application lets you devise separate broadcast schedules for all the zones.

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FEATURES & BENEFITS

Backup solution

If you insert a backup SD card with music into the decoder, this will start up automatically in the case of a network outage.

Online monitoring

You will have an overall view of the status of all devices and can instantly identify any fault..

Live announcements

Live inputs can be sent from a microphone, computer, or phone. You can also prioritize between announcements.

Local decoder control

You can easily adjust the volume of the decoder using an IR remote control. Pre recorded audio messages can be played using the button or a motion sensor.

Extending legacy audio systems

The Decoder can easily be linked to traditional analogue audio systems..

Bulk firmware upgrade

When a new version of the firmware is released you can update all the devices easily from one location.

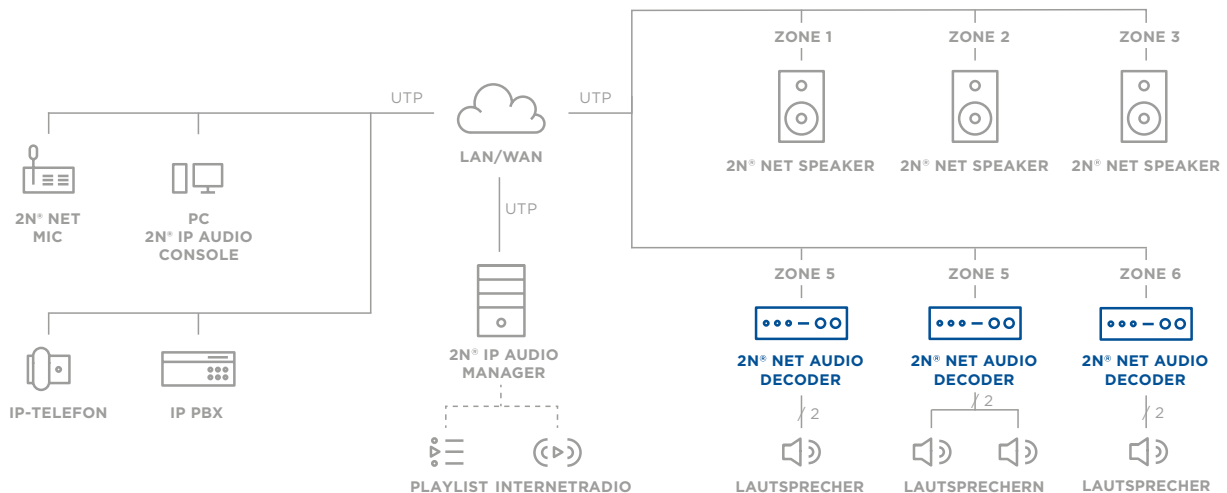
Integration to other systems

The Decoder can be easily integrated into third-party systems using the API.

Power supply

2N® Net Audio Decoder can be line powered using PoE or from a 12 V power source.

DIAGRAM



TECHNICAL PARAMETERS

Audio properties

| | |
|------------------|--|
| Audio properties | MPEG-1 Audio Layer II (MP2) |
| Bandwidth | 32-320kbps |
| RTP multicast | G.711a-law / u-law Linear PCM 16bit Stereo / Mono |

Amplifier properties

| | |
|-----------------------|---|
| Amplifier outputs | 4x connector on the back panel Stereo/Mono with auto detection |
| Loudspeaker impedance | 4-16Ω |
| Frequency range | 20Hz - 20kHz (+/- 0.5dB) |
| Harmonic distortion | 0,05% @ 1kHz |
| Signal-to-noise ratio | 91dB |
| Headphone/Line output | 1x 3.5 mm Stereo jack on the front panel |

Backup playback

| | |
|--------------|---------------------|
| MicroSD card | max. capacity 32 GB |
|--------------|---------------------|

Interfaces

| | |
|----------------|---|
| Digital output | 1x Relay output 24 V 1 A AC/DC, galvanically isolated |
| Digital output | 1x Digital input, 5 to 24 V DC, galvanically unisolated |
| Remote control | 1 x Infrared sensor on the front panel |

Power supply

| | |
|-----------------------|------------------|
| External power supply | 12V DC / 2A |
| Power over Ethernet | PoE IEEE 802.3af |

Dimensions and weight

| | |
|----------------------------|------------------|
| Dimensions | 105 x 34 x 86 mm |
| Dimensions with L-profiles | 130 x 34 x 86 mm |
| Weight | 300 g |

Operating temperature

Temperature range 0 - 40°C

SOFTWARE

- 2N® IP Audio Manager** - application, the nerve-centre of 2N IP audio
- 2N® IP Audio Control Panel** - application for controlling 2N IP audio via a computer
- 2N® IP Audio Remote Control** - application for controlling 2N IP audio via a smart-phone or tablet
- 2N® IP Audio Virtual Sound Card** - allows music to be played back via any PC
- 2N® IP Audio Console** - allows music to be played back via any PC