

MP3 / MP2 Audio Stream DECODER Board over IP

The easiest and cost effective way to create your audio network. Small and compact, completely autonomous audio decoder board. Directly pluggable on the IP network. Easy to install and remotely manageable.

Product overview

NS1 is designed for reliably reproducing and distributing MP2 and MP3 audio over Ethernet using IP protocols. NS1 is the professional solution for applications requiring audio to be sent cost-effectively and easily over standard IP-Networks covering long distances and/or to multiple locations.

NS1 supports compressed audio in MP2 (MPEG1 Layer II) and MP3 (Layer III) formats. NS1 is ideal for audio transmission, live sound and streaming in standard IP/Ethernet networks.

NS1 applications can be user designed to control all units linked to external equipment with the factory supplied OEM library (DLL). Fully programmable routing control permits sending audio to any NS1 or multiple groups of NS1's.

Applications

- √ Over-IP receiver for broadcast internet radio with optional interactivity, opinion polling terminal ...
- √ Information and public address for airports, bus and railway terminals, sports arenas, outdoor theaters, cruise ships, ...
- √ Combined sound distribution system, public address and emergency evacuation control, ...
- √ Zoned sound reinforcement for boardrooms, lecture halls, museums, auditoriums, ...
- √ Global audio distribution via TCP/IP and UDP, multi-channel audio over standard IP Network ...
- √ Central operation in crisis and control centers, tunnel control centers, parking surveillance centers, ...
- √ Background music/paging for theme parks, hotels & convention centers, shops, ...
- √ Advertising networks for shopping malls, supermarkets, fairs, conventions, large factories, ...
- √ Emergency evacuation control for schools and universities, stadiums, hospitals, ...

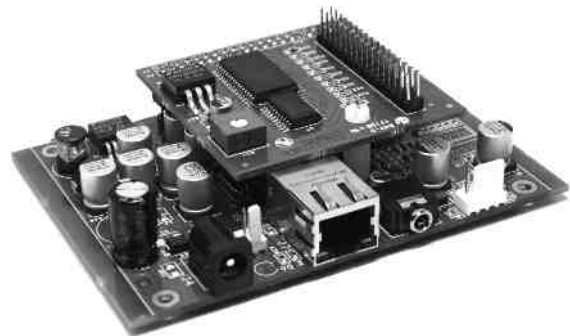
Selector Guide

PART	PACKAGE	ORDER CODE
NS1	Only board	NS1
NS1 powered	Board + PSU	NS1-PW
NS1 boxed	NS1 + box+ PSU	NS1-B

General Features

- ◆ Distributes audio effectively over existing standard TCP/IP networks
- ◆ Streaming audio in LANs, WANs or Internet
- ◆ MPEG-Layer II (MP2) and III (MP 3) decoder
- ◆ Unlimited number of NS1 devices in any system
- ◆ Interface to OEM through DLL
- ◆ Multicast or Unicast configuration
- ◆ GPIO for remote control of peripherals and interactivity

NS1



SDK and Application Software

The NS1-SDK has been created to build applications for all the NS1 boards. This development kit includes a DLL, a library and examples to develop the software to control NS1 boards under W2000 and XP. It comes free with the SDK (no royalties). The SDK also includes NScontrol, a simple software to directly manage all the NS1 boards plugged into the network.

Another simple way to use NS1 decoder boards under W2000 or XP is via the NS1-KIT. This package includes a WinAmp plug-in and a little announcement software called NSTX. While playing background music with WinAmp, announcements can be sent to one or more NS1 boards with NSTX, temporarily interrupting the background music.

MP3 / MP2 Audio Stream DECODER Board over IP

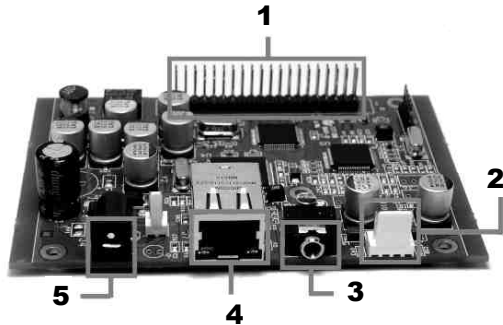
NS1

TECHNICAL SPECIFICATIONS

	PARAMETERS	DESCRIPTION
Audio	Format	MPEG1/2/2.5-Layer II and III for UDP (raw) and *HTTP (TCP) audio streaming
	Bit Rate	32÷384 Kb/sec (MPEG1-L2), 32÷320 Kb/sec (MPEG1-L3), 8÷160 Kb/sec (MPEG2-L3)
	Sampling Frequency	8/11,025/12/16/22,05/24/ 32/44,1/48 Khz
	Mode	stereo, joint stereo, dual channel, single channel
	Analog Output	1 headphone stereo female jack (3,5 mm) /1 line stereo out header (2,54 mm)
	Digital Output	1 SPDIF out header (2,54 mm)
	Frequency Response	20 - 20.000 Hz (+/- 3 dB)
	SNR	> 94 dB
	Crosstalk	>80 dB
	THD	0,003%
Network	Interface	RJ45 female connector full duplex IEEE 802.3 10/100Mb/s
	Protocols	UDP (raw) encoding/decoding, HTTP (TCP) only decoding
Remote		via internet, local ethernet network by NScontrol or API
Misc		40 pin expansion connector for optional LCD, IR RX/TX, GPIO, memory add-on, keypad or external devices
Power		5/24V DC or AC 90 mA (6 mm coaxial connector)
Dimension		110 x 80 x 30 cm

* only for NS1 boards equipped with NS1-P

NS1 Connectors



1. Expansion Port	4. 10/100 Ethernet Port
2. Line Out	7. Power Supply
3. Headphone	

Memory & Interface NS1-P

With this piggyboard you add 128 kbytes (1 Mbit) of RAM to the NS1 board. This expansion is necessary when you have to receive audio from the Internet via HTTP. This board includes an 8 bit output and an 8 bit input for driving external devices like alphanumeric displays, keyboards, etc.



NS1 Boxed Version

The NS1, NS1-P and NS1-R are also available on the rugged metal box (13x15x4,3). Equipped with LCD display and four keys to interactive use or in a simple black box for basic installation. Easy for wall or rack mounting.



AudioShipper

For pricing, delivery and ordering information, please contact AudioShipper directly at info@audioshipper.com or visit AudioShipper's website at www.audioshipper.com.