

Neets Audio Amplifier 2:25

Network Controlled Stereo Audio Amplifier (2 x 25W)



Neets Audio Amplifier – 2:25 is a network controlled stereo audio amplifier controlled through LAN or RS-232. The Audio Amplifier – 2:25 adds additional RS-232 and I/O ports for expansion and integrates with Neets and 3rd party control systems.

The USB audio input enables direct audio input and volume control from a computer (PC or Mac).

Features

Class D amplifier with built-in DSP

High efficiency amplifier with high quality sound

2-channel stereo amplifier

2x25 Watts @8 ohm or 2x35 Watts @4 ohm both in stereo

Bridge mode

1x34 Watts @8 ohm or 1x56 Watts @4 ohm both in bridge mode

USB audio

Provides audio playback and volume control on connected PC or Mac

1 LAN port

Enables control of the amplifier and adds two extra RS-232 ports for expansion of the control system

2 Bi-directional RS-232 ports

Used for control or expanding the AV system with more devices

4 General Purpose I/O ports

Used for extra input/output ports for control of relays, switches and sensors. The I/O ports can also be used for direct control of basic functions of the amplifier

Auto power function

Powers on when signal is detected, and enter sleep-mode automatically after 15 minutes without signal

3 band equalizer

Works as an active filter for bass, mid and treble

LED indicators on the front

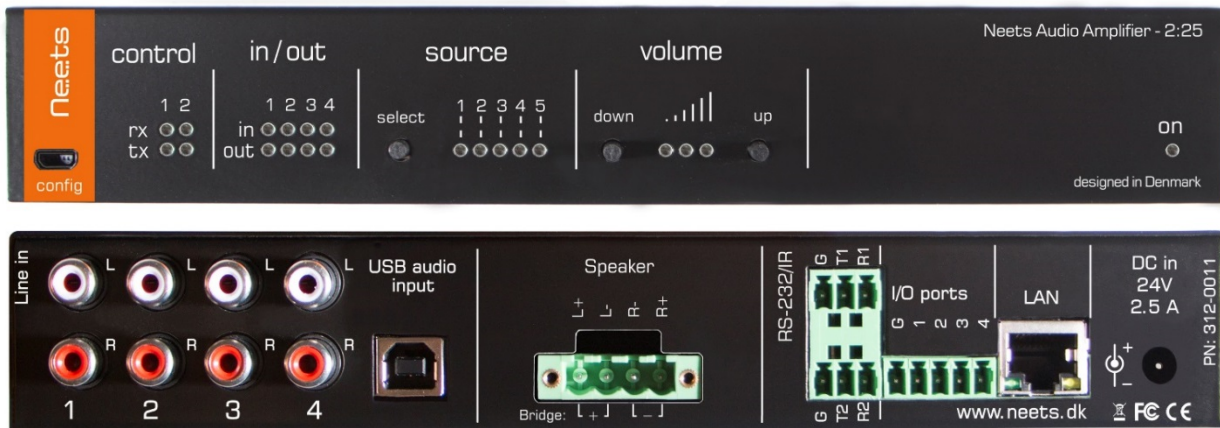
Convenient located on the front for easy performance indication

Easy mounting

Can be mounted in trunking systems, hidden or in 1RU using the Neets Rack Shelf

Configuration

Configuration is done directly using a built-in configuration area that fully integrates with Neets Project Designer.



Technical Specifications (Preliminary)

Speaker output:

Output power	
Stereo	2 x 25 W @ 8 ohm
Stereo	2 x 35 W @ 4 ohm
Bridge	1 x 35 W @ 8 ohm
Bridge	1 x 55 W @ 4 ohm
THD+N, 20 Hz - 20 kHz	< 0.1 % @ 1 W
Connector	4 pin screw block

Analog audio input:

Unbalanced inputs	4 stereo inputs
Input impedance	< 100 k Ohm
Max input level	2 Vrms
Input gain adjustable	+/- 12 dB
Wake on signal	Adjustable level
Connector	2 x 4 RCA female

USB audio input:

Supported OS	MAC OS-X Windows XP, Vista, 7, 8, 8.1, 10
Bit depth	16 bit
Sample rate	48 kHz
Controls	Volume, mute
Wake on signal	Trigger on 5V USB
Connector	USB-B female

Power input:

Input voltage	24 VDC
Max power usage	50 W
Standby power usage	< 3 W
Connector	5,5 mm DC plug

Power adaptor (included)

Input voltage	100 VAC – 240 VAC
Line frequency	50 Hz – 60 Hz
Max power usage	70 W
Connector	Cable with prong

Network (LAN):

Speed	10 / 100 Mbit
Duplex modes	Half or Full
DHCP	Default off
Default IP	192.168.254.252
Default gateway	192.168.1.1
Default subnet mask	255.255.255.0
Connector	RJ45 with LED

RS-232 / IR ports:

Ports	2 x bidirectional
Baud rate	1200 – 115200 bit/sec
Data bits	7, 8
Parity	Even, Odd, None
Stop bits	1, 2
IR frequency	400 Hz to 500 KHz
Connector	2 x 3 pin screw blocks

Input / Output:

Ports	4 x I/O
Input trigger low	< 1VDC
Input trigger high	> 4VDC
Output type	Open drain
Isolated output	No
Max voltage load	24 VDC
Max current	0.5 A
Connector	5 pin screw block

General:

Width	218 mm
Depth	70 mm
Height	37 mm
Weight	0.5 kg
Shipping weight	? kg
Shipping dimensions	? mm / ? mm / ? mm
Storage temperature	-20 °C to 50 °C
Storage moisture	Non condensing
Operation temperature	0 °C to 30 °C
Operation moisture	Non condensing

Approvals:

IEC/EN	61000-6-1
IEC/EN	61000-6-2

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