Neets Audio Preamplifier

Network Controlled Audio Preamplifier with PoE

Neets Audio Preamplifier is a network controlled audio preamplifier controlled through LAN or RS-232.

The Preamplifier adds additional RS-232 and I/O ports for expansion of the AV system 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).

The Preamplifier can be powered by Power over Ethernet or the included 12V PSU.

Features

4 unbalanced stereo inputs
Unbalanced stereo audio input for line input on RCA connectors

1 Balanced stereo audio output
Stereo balanced or single ended line level output on terminal blocks

USB audio
Provides audio playback and volume control on connected PC or Mac

Power over Ethernet
Power can be supplied through PoE

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 preamplifier

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

12V DC power in/out
When powered by PoE the 12V DC output supplies power for external devices such as control system. When not powered by PoE the included 12V PSU can be used for power input

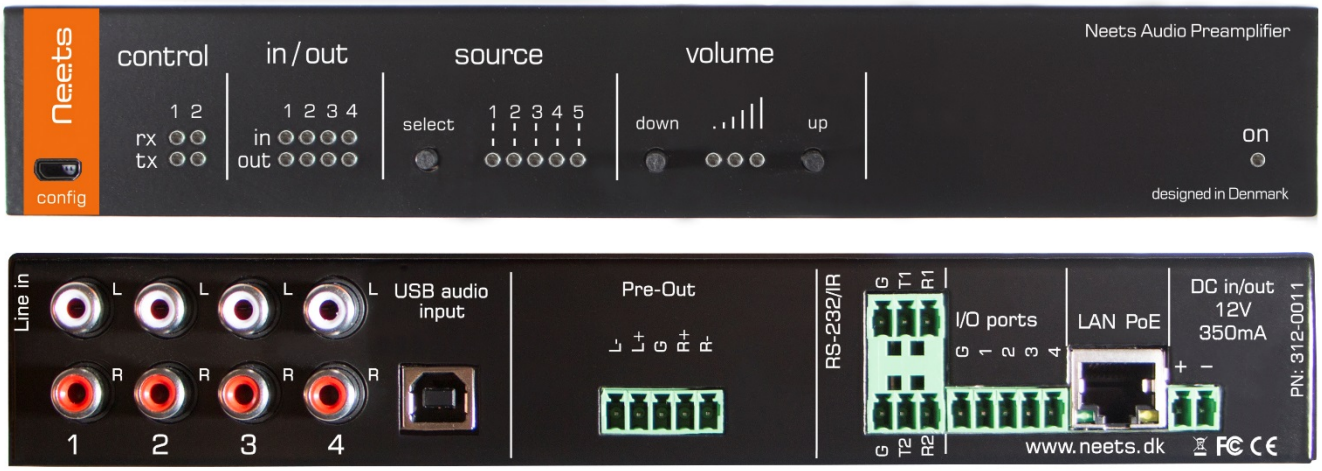
Input 1 Mix function
Possible to set Input 1 as an input, that mixes with the current selected input

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 takes place via USB or LAN using a built-in configuration area that fully integrates with Neets Project Designer



Technical Specifications (Preliminary)

Line output:	
Balanced output	1 stereo output
Output impedance	100 Ohm
Output level @ 0 dB/FS	1.3 Vrms/+4 dBu
Connector	5 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/output:	
Input/output voltage	12 VDC
Max power usage	5 W
Standby power usage	< 3 W
Connector	2 pin screw block
Power over Ethernet:	
Compliance	802.3af / 802.3at
802.3af mode	A + B
PD Class	2
Power adaptor (included):	
Input voltage	100 VAC – 240 VAC
Line frequency	50 Hz – 60 Hz
Max power usage	Max 25 W
Connector	Prong matching country of sale

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