



SpeakerLinX SL251

IP-Based Room Controller/Amplifier



SL251

The SpeakerLinX SL251 is an IP-Based controller/amplifier designed to mount on or adjacent to a speaker. An Adobe® Flash® enabled SpeakerLinX SL251 module contains not only the IP-controlled amplifiers, but also a web server for complete control from any computing or display device that hosts a web browser. The SpeakerLinX represents a remarkable combination of audio and networking engineering in the pursuit of high quality and convenient music reproduction.

- Amplifier
- Preamp
- A/D Converter
- D/A Converter
- Webserver
- KeyLinX
- Intercom
- Flexibility
- Mounting options
- StreamNet™ Connected

■ **Amplifier** - Incorporating state of the art digital amplifier design technology, the dual mono-block power amplifier built into the SL251 operates at an astounding ~92% efficiency. *NetStreams* engineers have been able to fit 100 watts of power into a package small enough that it can be located next to or even on the speaker itself. As any speaker or amplifier designer will tell you, the closer the amp is to the speaker, the better the sound. This arrangement means no need for bulky, hot amplifiers cooking the other components in the rack. The benefits? More efficient use of electricity, longer component life, and most importantly, better sound

■ **Preamp** - All of the standard functions of a line level preamp (volume control, L-R balance, tone controls. Input switching) are available in the SL251. Although a quick glance at the connections on the SL251 doesn't reveal any audio inputs, the SpeakerLinX can play context to as many sources as you have in your system via its network connectivity. That's right; virtually unlimited sources!

■ **A/D Converter**- System designers can take advantage of the SpeakerLinX's analog audio input to connect other sound sources into the system. For example a TV, computer game system or personal MP3 player can be connected to the SL251 via an optional Audio Port wall plate. That source can then be listened to over the speakers in the room or in any other room in the house (even if the sound in the local room is off or playing a different source!)

■ **D/A Converter**- In addition to its onboard amplifier, the SL251 has a Burr-Brown 24 bit, 192kHz Digital to Analog Converter (DAC). The output of this high quality DAC can be connected to additional amplification or a subwoofer via an optional Audio Port and the volume can be variable or set at a fixed level.

■ **Webserver**- The SL251 contains a built in web server which creates the Graphical User Interface (GUI) used to control the system. Every zone or room has its own web server and each can be customized with a unique look and feel. There are over 20 different skins and an unlimited palette of color schemes. The SL251 can even create GUI's in 16 different languages when used with our "international" skin.

The Ultimate IP A/V Experience

SpeakerLinX SL251

Features

■ **KeyLinX** - For simple local control, you can attach a KeyLinX to the SL251 via a single CAT5e cable. KeyLinX provide source selection, volume control, basic transport functions and even intercom capabilities.

■ **Intercom** - The SL251 can provide a fully configurable custom intercom system just by adding a TouchLinX or KeyLinX (they all have embedded microphones). You get the best sounding, most flexible intercom system available!


■ **Flexibility** - The small size and versatile software architecture of the SL251 gives unprecedented flexibility in system design and configuration. The amplifier can be mounted, virtually anywhere, from the main rack to the speaker, and anywhere in between. You can use a single SL251 in a zone or create a single zone out of multiple SL251's to drive multiple speakers in a large room. When used in conjunction with other *NetStreams* components the SL251 can be used to control dozens of conventional speakers or even control 70 and 100v transformer speaker systems. The SL251 may well be the most flexible amplifier in the world!

■ **Mounting Options** - SpeakerLinX can be rack mounted, mounted at the speaker, or in the zones walls. Using a 2U *NetStreams* Rack Mount plate up to 4 SpeakerLinX can be mounted on the plate. Because of its 2-gang size, the SpeakerLinX can also be mounted in the wall. An in-wall lit is available (sold separately) that makes it easy to install and access at a later time. Ideally, the SpeakerLinX should be mounted as close to the speaker as possible to preserve audio quality. A surface mount plate (sold separately) is available that can be screwed into an enclosure or truss and the SpeakerLinX easily clicks in.

■ **StreamNet Connected**

NetStreams Patent-pending *StreamNet* Technology provides the backbone for DigiLinX. *StreamNet* technology ensures that audio between all zones are within 500 microseconds of each other, *StreamNet* Connected devices work seamlessly together, and can be updated in the future as new features become available.

Specifications

8 Ohms Stereo Power:	40 watts / channel RMS
4 Ohms Stereo Power:	50watts / channel RMS
Frequency Response:	20-20kHz +/- 1dB
Signal-to-Noise Ratio:.....	98 dB
Input Impedance:.....	17 k Ohms
THD + N:	0.1% @ 5W (20 Hz to 20 kHz@ 8 Ohms) 0.1% (20 Hz to 20 kHz@ 4 Ohms)
Input Connectors:	RJ45 (EIA 568a) RJ45 (EIM) 4-pin Phoenix Connector (Power)
Output Connectors:	4-pin Phoenix Connector (speakers)
Audio Port Connector:.....	RJ45 (EIA 568a)
Speaker Connectors:	(2) 2-pin 5.0 mm Phoenix style connector (speakers)
Dimensions:	3 3/5" x 2 4/5" x 1 1/2"
(W x H x D):	(92mm x 72mm x 39mm)
Weight:	0.53 lbs (0.24 kg)
Current (mA).....	0.2A Nominal, 4.5 Maximum
Operating Temperature.....	0 - 50C
NetPower™	24
Restriction of use of certain Hazardous Substances	 (RoHS) compliant



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Excellence in Design

NetStreams is focused on providing high quality networked digital A/V systems. By leveraging its patent pending technologies and applications, *NetStreams* is creating the future of IP A/V - today.

Support - *NetStreams* offers world-class support for all products.

Email-support@netstreams.com or toll free - 866.353.3496

