The SL DI 4 XLR Dante™ interface

Instruction manual

SENNHEISER

The SL DI 4 XLR Dante™ interface

The SL DI 4 XLR is a Dante™ interface with four inputs. This lets you integrate wireless microphone receivers or mic/line inputs into a Dante™ system. The compact design of the SL DI 4 XLR allows it be mounted almost anywhere, enabling close placement to audio sources and thus reducing the need for interference-prone analog cables.

Product overview and LED indicators – front panel

1	**P48** LEDs	indicate, for each individual XLR input (IN 1, IN 2, IN 3, IN 4), whether the phantom power is activated
2	**+45, +30, +15** LEDs	indicate the gain settings for each XLR input
3	**PAD** LEDs	indicate, for each individual XLR input, whether the -12 dB pad function is activated
4	**POWER** LED	lights up when the power supply is active

Product overview and connections – rear panel
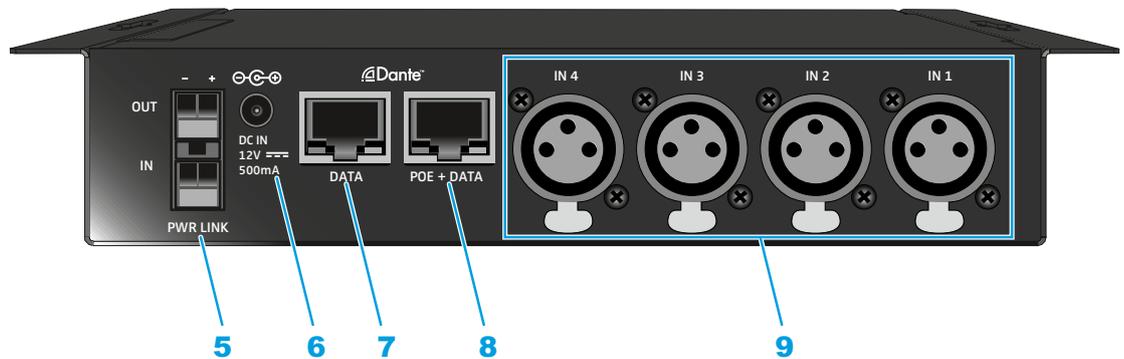
5	**PWR LINK** input and output	Terminals for daisy-chaining the power supply to other devices
6	**DC IN** socket	input socket for an optional power supply unit (Sennheiser NT 12-50CS)
7	**DATA** socket	Dante™ Ethernet socket
8	**POE + DATA** socket	Dante™ Ethernet socket with PoE function
9	analog XLR inputs (IN 1, IN 2, IN 3, IN 4)	analog audio inputs

Powering the SL DI 4 XLR

There are two options to power the SL DI 4 XLR.

Power supply via Ethernet cable

To power the SL DI 4 XLR via Ethernet:

▷ Use an Ethernet cable (CAT-5 or higher) to connect the POE + DATA socket of the SL DI 4 XLR to a PoE port of a PoE-enabled network device.

The POWER LED lights up when the power supply is established.
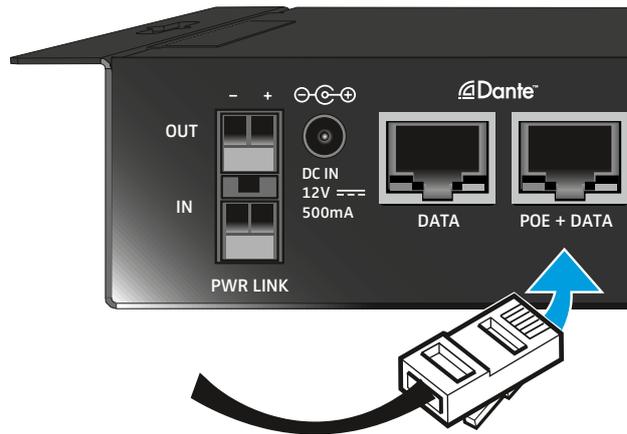
Power supply via the optional Sennheiser NT 12-50CS power supply unit

To power the SL DI 4 XLR via the optional NT 12-50CS power supply unit:

▷ Connect the NT 12-50CS power supply unit to the DC IN socket of the SL DI 4 XLR.

The POWER LED lights up when the power supply is established
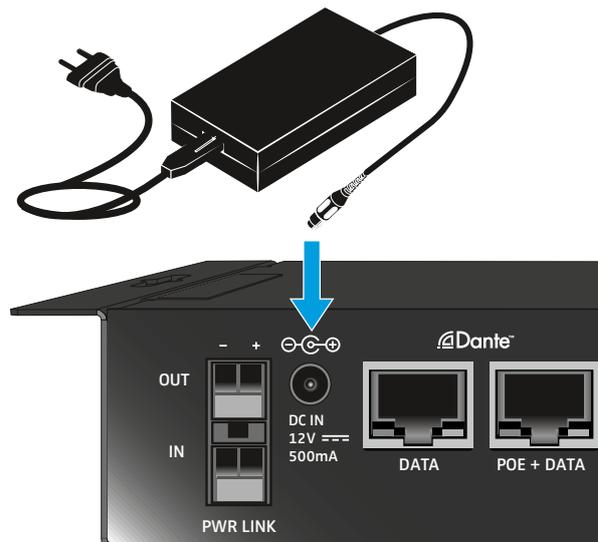
Daisy-chaining the power supply

The PWR LINK IN and OUT terminals allow you to daisy-chain the power supply to additional devices.

The number of devices that can be daisy-chained is limited.

- NT 12-50CS power supply -> maximum of 3 devices.
- Power over Ethernet -> maximum of 2 devices

⚠ **WARNING!**

DANGER OF INJURY DUE TO MISSING OVERLOAD PROTECTION!

IF THE DAISY-CHAINING OF THE POWER SUPPLY IS NOT DONE PROPERLY, THIS MAY CAUSE INJURY DUE TO ELECTRIC SHOCK.

▷ Only have the daisy-chaining of the power supply done by a qualified specialist.

Connecting audio signals

You can connect a total of four analog audio signals (e.g. from microphone receivers (SL Rack Receiver DW) or wired microphones) to the SL DI 4 XLR.

You can change the settings for the respective microphone input using the SL DI CONTROL software (see „Configuring the SL DI 4 XLR using the SL DI CONTROL software").

To connect analog audio signals to the SL DI 4 XLR:

▷ Use an XLR-3 cable to connect the audio device to one of the four XLR inputs.

2x Dante® audio out   4x analog audio in

Examples:
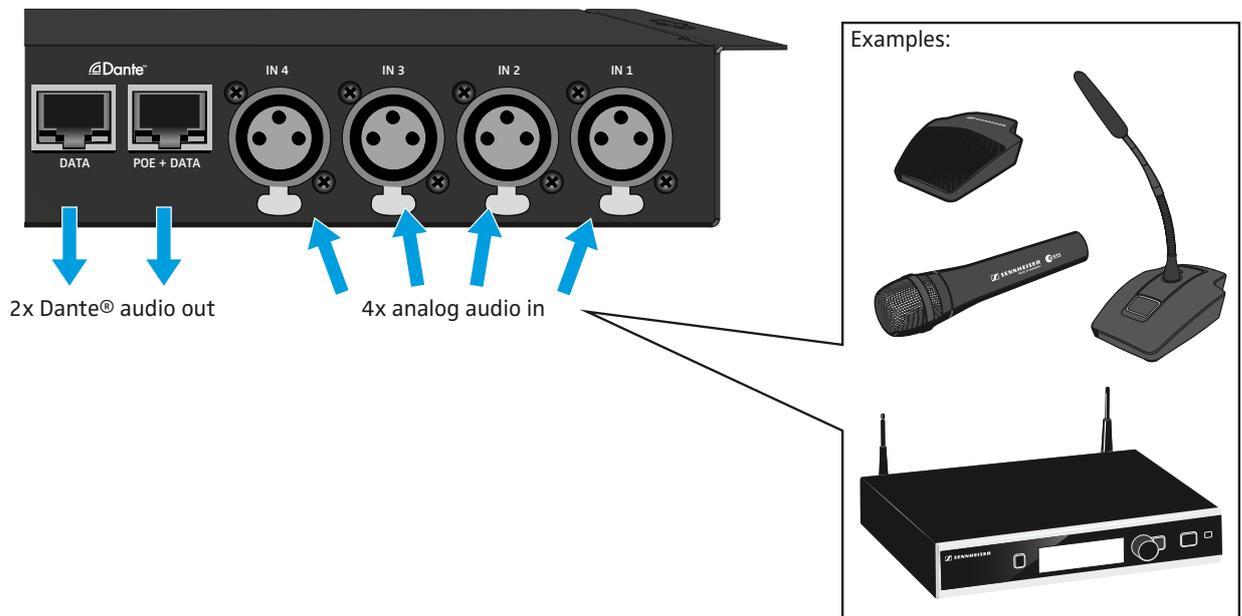
Via the DATA and POE + DATA Ethernet sockets, the audio signals are routed, using Dante™, to a Dante™-enabled device.

The destination of the Dante™ stream is configured using a Dante™ software controller. This controller is not part of the SL DI CONTROL software..

Configuring the SL DI 4 XLR using the SL DI CONTROL software

All settings of the input and outputs of the SL DI 4 XLR are adjusted using the SL DI CONTROL software. You can download the software at www.sennheiser.com on the product page for the SL DI 4 XLR or in the global download area on the Sennheiser website at www.sennheiser.com/download.

▷ Install the software on a network-enabled Windows PC.

Starting the SL DI CONTROL software

After opening the software, the start screen is shown:
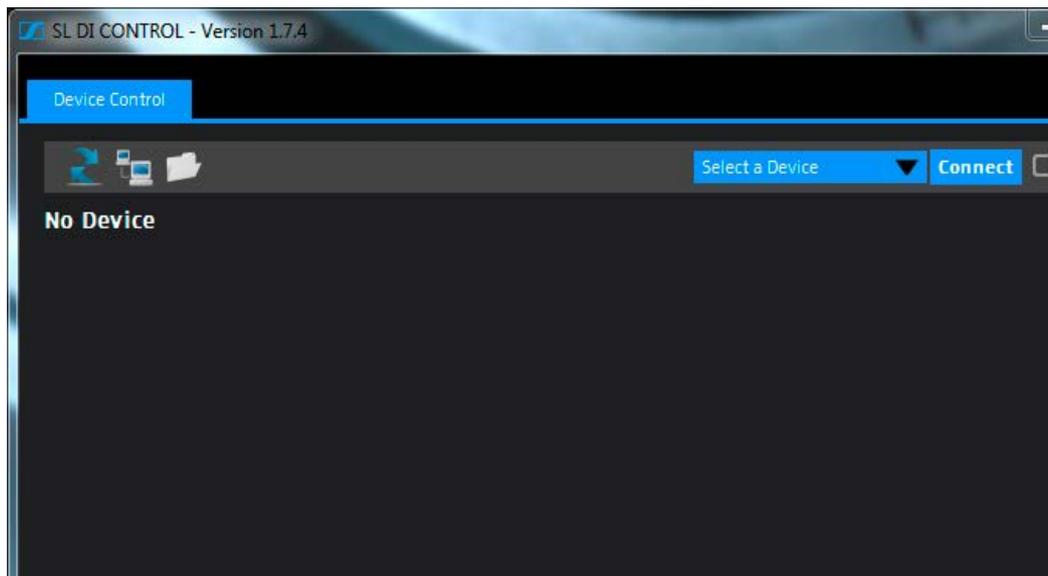
Selecting the network interface

If you have a network with several interfaces, you can select the network interface:

▷ Click on the network icon on the left of the navigation bar.

▷ Select the desired network interface.
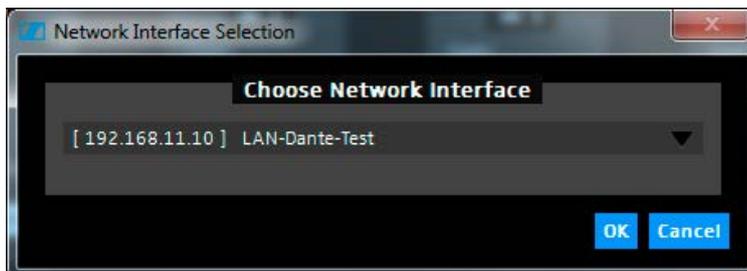
▷ Click on OK.

Establishing a connection to a SL DI 4 XLR

To establish a connection to a SL DI 4 XLR:

▷ Select the desired SL DI 4 XLR from the drop-down list on the right of the navigation bar..
    The drop-down list shows all SL DI 4 XLR devices that are in the same network as the PC on which the SL DI CONTROL software is running.
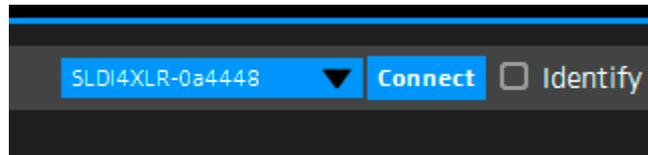
▷ After having selected the desired device, click on Connect.

The connection to the selected device is established and the following configuration window opens:

Changing the settings

The configuration window allows you to adjust the following settings for each analog XLR input (IN 1, IN 2, IN 3, IN 4):

Gain

▷ Select the level adjustment for the desired input from the drop-down list

-12 dB	Attenuation of -12 dB. At the front of the SL DI 4 XLR, the PAD LED of the selected input lights up.
0 dB	No LED lights up.
+15 dB	At the front of the SL DI 4 XLR, the +15 LED of the selected input lights up.
+30 dB	At the front of the SL DI 4 XLR, the +30 LED of the selected input lights up.
+45 dB	At the front of the SL DI 4 XLR, the +45 LED of the selected input lights up.

Phantom

▷ Tick the check box to activate the phantom power for the desired input.
    At the front of the SL DI 4 XLR, the P48 LED of the selected input lights up.

Saving and loading settings

You can save the settings made as presets or as files.

To save the settings:

▷ Click on the folder icon on the left of the navigation bar.
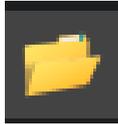
The following dialog box opens.
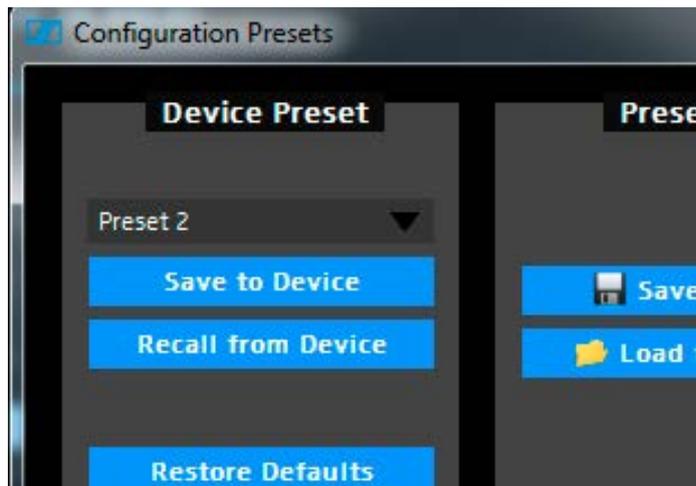
To save the settings as a preset:

▷ From the drop-down list in the Device Preset box, select a preset to which you want to save the settings.
  The settings can be saved in 10 presets.

▷ Click Save to Device.

To load the settings saved as a preset:

▷ Select the desired preset from the drop-down list in the Device Preset box.

▷ Click Recall from Device.

To save the settings as a file:

▷ Click on Save to File in the Device Preset box..

▷ Select a location and a file name.
  The file is saved with the extension *.cfg.

To load the settings from a file:

▷ Click Load from File in the Device Preset box.

▷ Open the location of the desired file.

Identifying devices

If you are using several SL DI 4 XLR devices and want to know which device in the software corresponds to which hardware in your installation, you can use the Identify function.

▷ Tick the Identify check box at the right of the navigation bar.

All four PAD LEDs flash on the corresponding SL DI 4 XLR.

The Dante Debug Mode

In Dante Debug Mode, the LEDs at the front of the SL DI 4 XLR indicate the diagnostic status.

After start-up of the SL DI 4 XLR, the diagnostic status is displayed for approx. 20 seconds before the level and phantom power settings are shown.

To manually display the diagnostic status::

▷ Tick the Dante Debug Mode check box in the lower left corner of the configuration window.
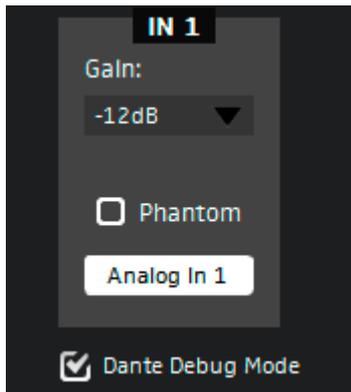
At the front of the SL DI 4 XLR, the PAD and +15 LEDs of the IN 1, IN 3 and IN 4 inputs indicate the following status information:

IN 1 input: SYNC
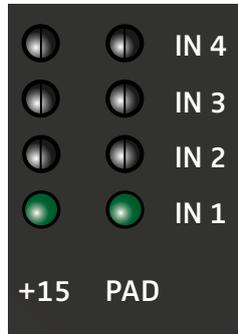
	The PAD and the +15 LED of the IN 1 input light up::	PTP is being synchronized.
	The +15 LED of the IN 1 input lights up	PTP Error / No PTP Sync / PTP deactivated
	The PAD LED of the IN 1 input lights up:	PTP Slave, with PTP-Sync
	The PAD LED of the IN 1 input flashes:	PTP Master
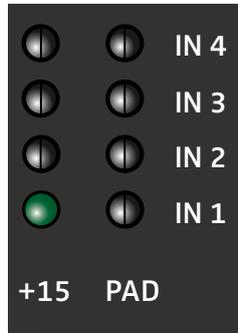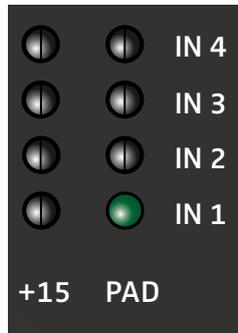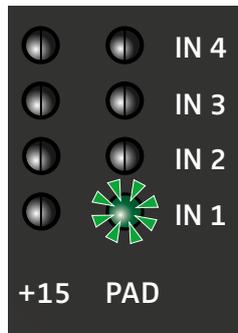
Eingang IN 3: ERR
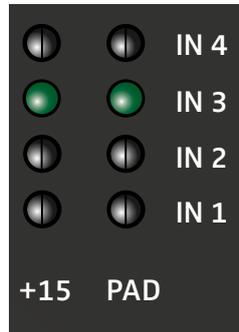
The PAD and +15 LEDs of the IN 3 input light up: Capability is corrupted
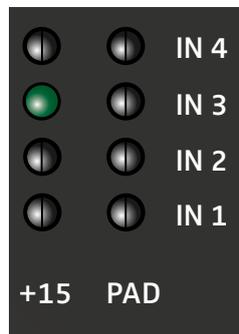
The +15 LED of the IN 3 input lights up: Memory Stack Overflow

Eingang IN 4: SYS
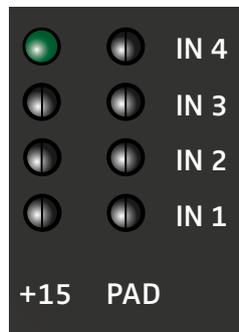
The +15 LED of the IN 4 input lights up: System starts up
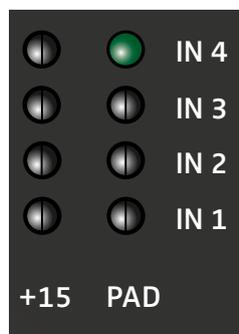
The PAD LED of the IN 4 input lights up: System is ready for operation