



# 8CH and 4CH FX-LOOP

## User Manual

### Amplifier Cabinet Switcher Extensions



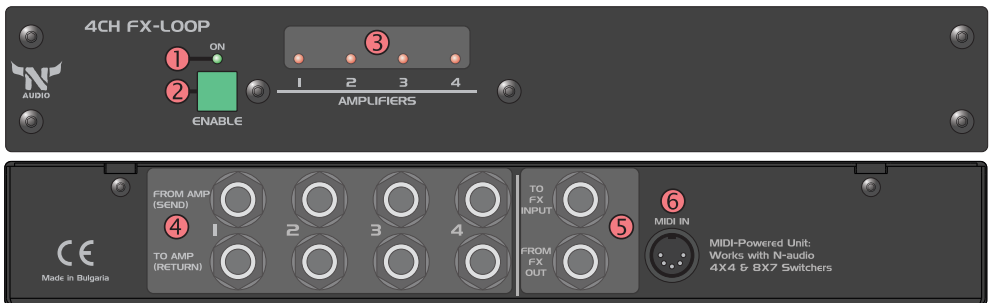


**THANK YOU for choosing the N-audio Amp Cabinet Switcher, and welcome to the N-audio family!**

## Introduction

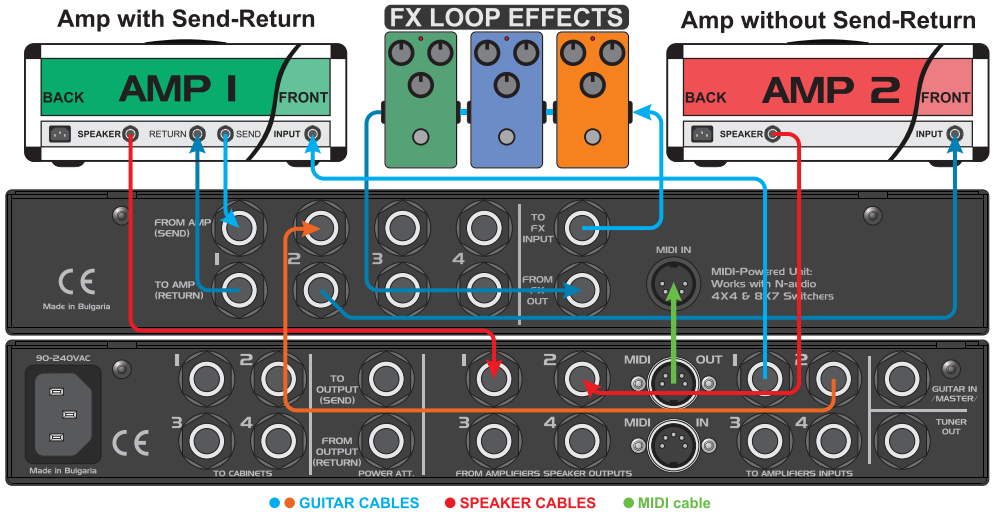
The N-audio 4CH and 8CH FX-Loop extensions are designed to enhance the functionality of your N-audio 4X4 and 8X7 Amp Cabinet Switchers. They allow for seamless switching between amplifiers and FX effects connected to the Send-Return, ensuring that your selected FX effects are always routed to the active amplifier. This extension units offer efficient, noise-free switching between your favorite amplifiers and FX effects. The N-audio 4CH and 8CH FX-Loop units are compatible only with the N-audio 4X4 and 8X7 Switchers and cannot be used as standalone units or with amp cabinet switchers from other brands.

## Controls and connectors



1. **On/Status LED:** Stays ON when the unit is powered by the Switcher, and flashes with any MIDI message.
2. **Enable button:** Toggles the FX-loop on/off for the selected amp.
3. **Active amplifier LEDs:** Indicates the active FX-Loop.
4. **Send-Return jacks:** Connect to your amplifier's send-return.
5. **External FX Insert:** Connect to the input of the first FX effect and the output of the last FX effect.
6. **MIDI IN:** Connect to the MIDI OUT of your 4x4 or 8x7 Switcher.

## Typical FX-Loop Wiring



The sketch above illustrates two types of amplifier wirings. **AMP 1** shows how to wire an amp or combo that has a send-return section.

For amplifiers or combos without send-return, you need to route the FX effects directly into their inputs. **AMP 2** shows the correct wiring setup for that configuration. When using an amplifier without a send-return, it is necessary to put a guitar cable between “To amplifier's input” and the Send jack, as shown in orange on the sketch above, linking the input of the amplifier of the Switcher to the Return of the FX-Loop extension unit.

## Enable/Disable function

During normal operation, you don't need to interact with the FX-Loop unit. When an amplifier is selected on the Switcher, it sends a MIDI message to the FX-Loop extension, which enables the FX-Loop accordingly. If needed, you can disable the FX-Loop for any selected amplifier by pressing the Enable button on the FX-Loop unit. The active amplifier LED will turn off. This button toggles the enable/disable condition of each selected amplifier's FX-Loop, and this condition is stored in the FX-Loop internal memory until the Switcher is powered off. This function can also be controlled via MIDI if you operate your Switcher through MIDI. To do so, use the following MIDI messages:

- **Enable FX-Loop:** MIDI CC 90 value 10
- **Disable FX-Loop:** MIDI CC 90 value 20

Both MIDI messages are available on all 16 MIDI channels.

## **Powering Effects Connected to the FX-Loop Switcher**

For optimal performance and to minimize ground loops, use an isolated power supply for effects connected before the amplifier and those linked to the FX Send-Return section. Avoid using a non-isolated power supply for these effects.

## **Matching FX-Loop Send Levels From the Amplifiers**

When using FX-Loop effects, the signal path is the amplifier preamp section, followed by the FX send-return loop, the master volume, and the power amp. It is important to match the levels going out from your amplifier's sends to the FX-Loop. You can check that by using long-tail delays. When switching the amplifiers, the remained tails from the previous amplifier have to be at the same level as the current selected amplifier. Tweak your amplifier's gain/level knobs until the sound from the speaker cabinet has similar levels.

## **What is in the box**

The 4CH FX-Loop and the 8CH FX-Loop extensions, come with a 35cm MIDI cable and a user manual in the package. The 4CH FX-Loop does not include 1U mounting brackets as standard, but these can be purchased separately if needed.

## **Technical specifications**

<b>Dimensions:</b>	8CH FX-Loop: 19" 1U rack W/H/D: 48/4.5/13cm 4CH FX-Loop: W/H/D: 30/4.5/13cm
<b>Weight:</b>	8CH FX-Loop: 1.5kg, 4CH FX-Loop: 1kg
<b>Power Supply:</b>	5VDC MIDI powered

## **Warranty**

The 4CH and the 8CH FX-Loop come with lifetime warranty.