Direct multi-channel audio

IO is part of Boredbrain's direct multi-channel audio series of modules, which interconnect to provide a multitude of audio outputs to eurorack systems. IO can be used as signal inputs for the DB25 and TRS modules, or alternatively to provide the Xcelon mixer with up to fifteen stereo direct outputs at eurorack level.

Features

- Connects to DB25 or TRS modules to provide direct audio inputs
- Connects to Xcelon mixer and expanders for fifteen stereo direct outputs
- Bidirectional signals on twenty-four mono and three stereo 3.5 mm jacks
- Passive circuitry requires no power

Technical Specs

- **Width:** 8 HP
- **Depth:** 0.79 in (20 mm)
- **Weight:** 3.0 oz (86 g)
- **Power:** None (passive)

Flexible Interconnection

On the front of the module are twenty-seven 3.5 mm jacks, which can serve as either inputs or outputs depending on how the rear ports are connected. The first twenty-four are mono, and the last three are stereo, with numbers above each jack (**1-30**) corresponding to those on the rear input/output ports.

The five connection ports on the back of the module (**IN/OUT 1-6, 7-12, 13-18, 19-24, 25-30**) can each send or receive six signals to or from compatible Boredbrain modules using the supplied 8-pin ribbon cables. When these ports are connected to the DB25 or TRS modules, the IO front jacks act as signal inputs for those modules. Alternatively, when connected to the Xcelon mixer or XP3 channel expander (**PRE** or **POST** or both), the IO front jacks act as eurorack-level direct outputs for the stereo mixer channels. The connections to these ports can be mixed and matched in any order with compatible modules connecting to any of the ports.

Possible Configurations

Please refer to the diagrams on the reverse side.

NOTE: *These configurations represent the most common scenarios. More may be possible by combining select modules in the Xcelon and Direct Multi-Channel Audio series.*

Limited Warranty

This product is guaranteed to be free of functional defects for a period of 180 days from original purchase date. Proof of purchase is required for any warranty claim. Return shipping costs are covered by Boredbrain Music within the first 30 days of purchase only. Products with obvious signs of abuse or that have been modified by the end user, may not be covered under this warranty, at the discretion of Boredbrain Music.

Service & Inquiries

If you experience a problem with your Boredbrain product, or just want to share something interesting with us, please contact us at the link below and be sure to include your name, original purchase date, and a description of the problem you are experiencing. Then just hold tight, as we return most inquiries within 48 hours. We want to work with you to resolve your issue as soon as possible. Thank you!
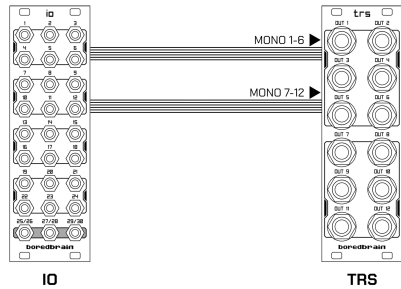
boredbrainmusic.com/contact

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iO

30-CHANNEL DIRECT INPUT/OUTPUT

USER GUIDE

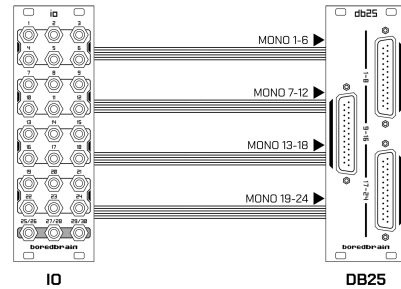## IO + TRS
12 mono balanced line outputs

IO + DB25
24 mono balanced line outputs

IO + TRS + TRS
24 mono balanced line outputs

MONO 1-6
MONO 7-12

IO — **TRS**

MONO 1-6
MONO 7-12
MONO 13-18
MONO 19-24

IO — **DB25**

MONO 1-6
MONO 7-12
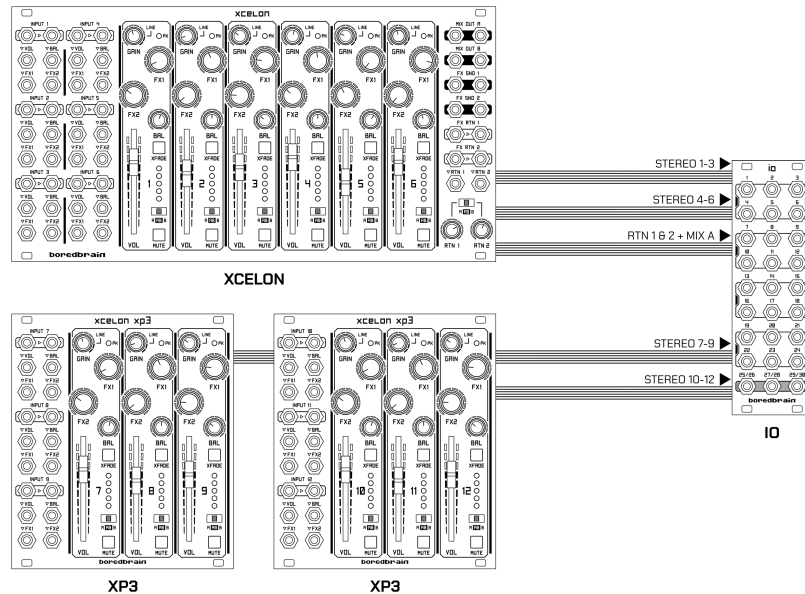MONO 13-18
MONO 19-24

IO — **TRS** — **TRS**
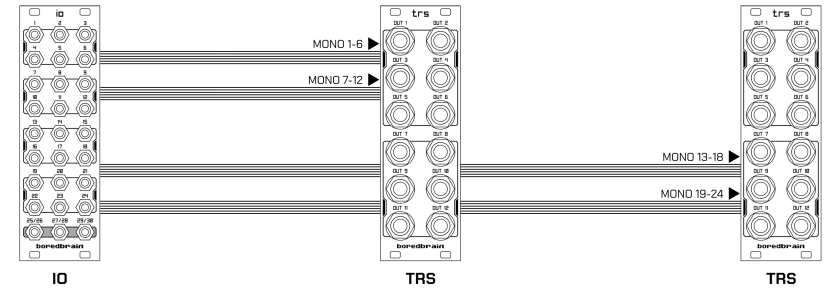
This simple configuration allows for twelve TRS outputs, and may be expanded further using the remaining three ports (eighteen signals) on the IO module.

This high-density configuration allows for a large number of balanced outputs, and still has one remaining port (six signals) on the IO module.

This configuration doubles the number of balanced TRS outputs by introducing an additional TRS module to the setup.
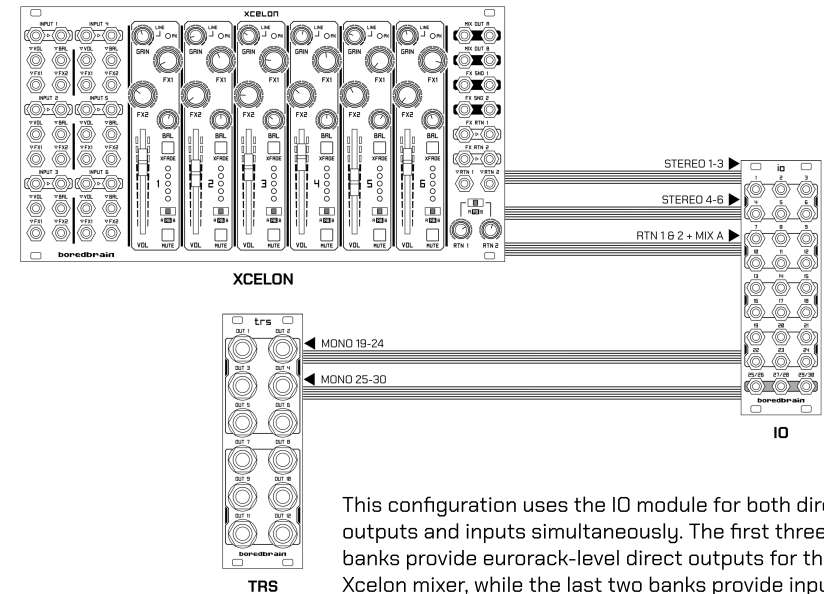
XCELON + XP3 + XP3 + IO
15 stereo eurorack direct outputs

XCELON + IO + TRS
9 stereo eurorack direct outputs + 12 mono balanced line outputs

STEREO 1-3
STEREO 4-6
RTN 1 & 2 + MIX A

XCELON

STEREO 7-9
STEREO 10-12

XP3   **XP3**   **IO**

This configuration provides eurorack-level direct outputs for the entire Xcelon mixer system. Signals can then be selectively patched from IO into an audio interface or to other destinations.

STEREO 1-3
STEREO 4-6
RTN 1 & 2 + MIX A

XCELON

MONO 19-24
MONO 25-30

TRS   **IO**

This configuration uses the IO module for both direct outputs and inputs simultaneously. The first three banks provide eurorack-level direct outputs for the Xcelon mixer, while the last two banks provide inputs for the TRS module. The IO module can then be selectively patched to itself or accept other signals to feed the balanced outputs.