

b:18

headphone + line output

b:18 is a stereo output module with a headphone amplifier and a balanced line driver. It takes a Eurorack-level mono or stereo input, shifts it to professional line level, and passes it through two separate volume controls for headphones and line before driving the outputs. The headphone amp can drive all types of headphones, with up to 600 ohm loads.

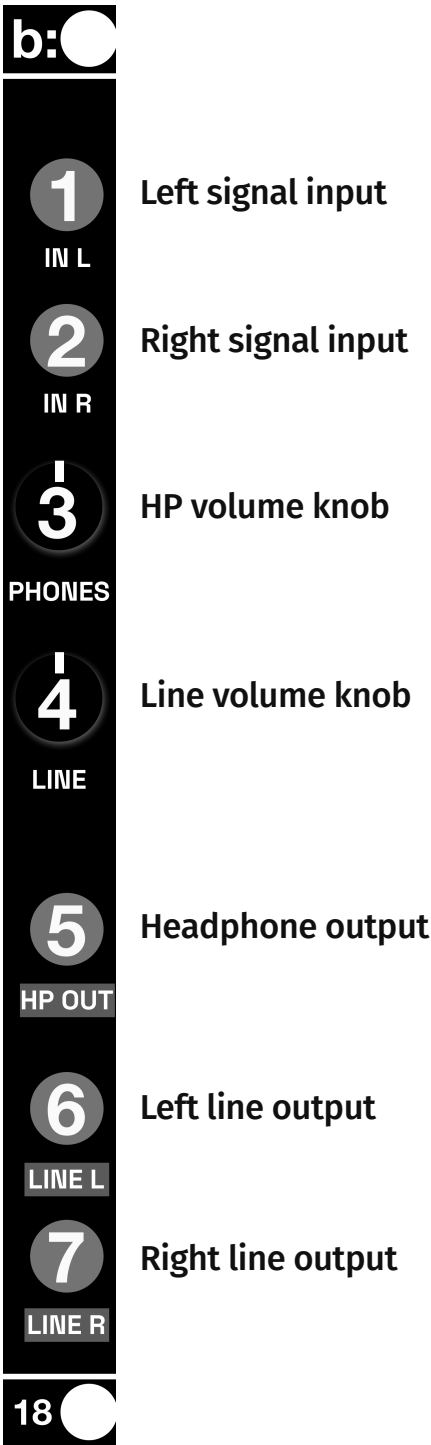
Technical specifications:

Operating voltages:	-12V / +12V
Power draw:	32 mA -12V / 32 mA + 12V (more when driving low-impedance headphones)
Width:	2 HP
Depth:	30 mm



This product was tested and found compliant with the following standards:
EN 55032:2015/A11:2020, EN 55035:2017,
EN IEC 63000:2018.

For details, please visit:
bartinstruments.com/conformity



Operation

The module has separate left and right inputs. If nothing is patched to the right input, the left (mono) signal is copied over to the right input making the signal stereo.

All jacks are 3.5mm. Make sure you connect headphones that feature a 3.5mm plug by default and be advised that a 3.5mm-to-6.5mm or a 3.5mm-to-XLR adapter must be used in most cases to carry the balanced line signal correctly to an external amplifier.

The module is designed to drive 600ohm headphones. This means that the volume controls can add a lot of gain over their full travel range. Be very careful when connecting lower-impedance headphones and make sure to set the volume knob all the way to the left beforehand.

Safety and Installation Guide

Ensure your modular system is powered on before installing the module. Only power on the system once every module is connected and properly installed in your system using the provided screws.

Do not expose the module to moisture or extreme temperatures.

Do not operate the module in environments with severe amount of dust in the air.

The module's inputs are protected against electrostatic discharge, but be careful when handling the module itself.

Only one row of power connectors is present on the module, and it doesn't matter which row of the 10-pin power header is connected to it. Please follow the markings on the back of the module to ensure correct power cable orientation. The module is protected against reverse power connection.