

b:14

4 in, 4 out mixer multiple

b:14 is a precision buffered mixer and multiple. It accepts up to four input signals, mixes them into a single summed signal, and distributes that signal across four identical buffered outputs. Built around the OPA1678 op-amp, it delivers precision well beyond 1V/oct accuracy, making it suitable for distributing pitch CV to multiple oscillators as well as general audio mixing and routing tasks.

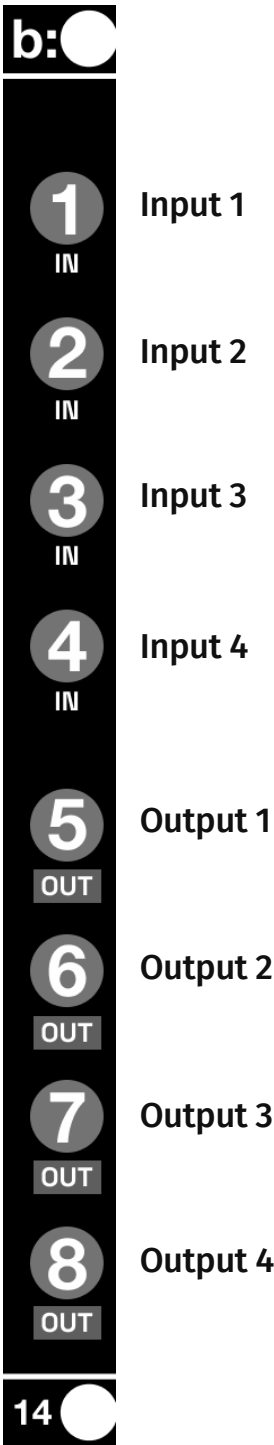
Technical specifications:

Operating voltages:	-12V / +12V
Power draw:	20 mA -12V / 20 mA + 12V
Width:	2 HP
Depth:	27 mm
Output impedance:	100Ω
Input impedance:	10MΩ



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

Patch up to four signals into the input jacks. All four outputs will carry the same summed, buffered signal.

The summing stage is driven by the OPA1678 and then further buffered to prevent loading effects when driving multiple destinations simultaneously. Output level and accuracy are not affected by the number of outputs in use.

The mixing stage gain is set by a jumper on the rear of the module. Refer to the jumper positions printed on the PCB for the available gain settings. Select the appropriate gain before installing the module into your rack.

The signal path is fully DC coupled, making the module equally suitable for precision CV (including pitch), modulation signals, gates, and audio. The OPA1678 provides extremely low offset voltage and distortion, ensuring that pitch CV accuracy is maintained across the full range of the signal.

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.