

The Electrode Interface Board (EIB-16) is mounted to microdrive hardware and provides the electronic signal connection between electrode wires and the 16 channel Neuralynx Headstage pre-amplifiers (HS-16). The EIB-16 also provides mechanical connection between microdrive hardware and the HS-16.

The EIB-16 does not contain any active electronics, and can pass signals in either direction. The HS-16 will define the signal direction via its buffer amplifiers.

### HS-16 Connection

The EIB-16 to HS-16 connection can only be made in one direction. The HS-16 guide posts go in the holes that are blacked out in the Pin Layout diagram.

### EIB-16 Mounting

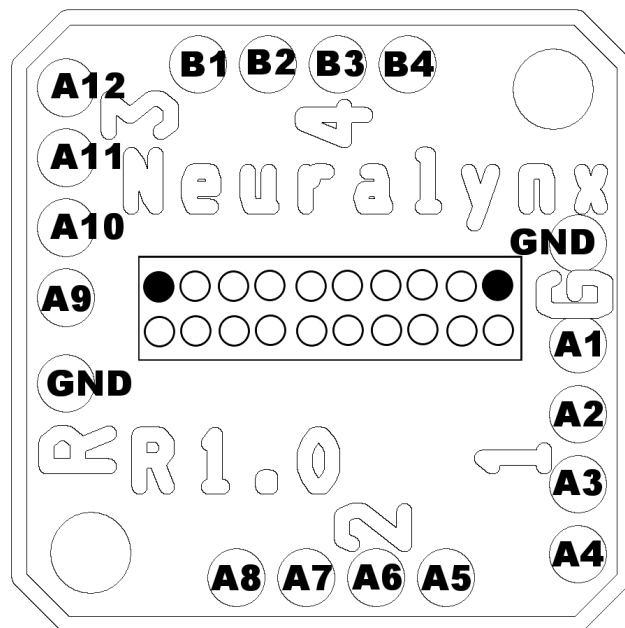
The EIB-16 is designed for mounting on a microdrive. Use the screw holes (top right and bottom left) to mount the EIB-16 securely to a microdrive.

### Electrode Connection

Electrode wires will be inserted from the bottom of the board. Insulation does not need to be removed from the wire if using Neuralynx EIB Pins. See the *Electrode Attachment Guide* for more information on using EIB Pins. The EIB-16 uses the Large EIB Pins (0.05cm/0.021"). The EIB-16 may require a skull screw connected to the *GND* mounting hole to eliminate noise on the EIB.

### EIB Reuse

Reuse of the EIB-16 is not recommended, but is possible. If reuse of the EIB-16 is required, please contact Neuralynx for assistance.



EIB-16: Pin Layout (Top View)

### Technical Specifications:

<b>Size (LxWxH)</b>	1cm x 1cm x 0.6cm
<b>Weight</b>	200mg
<b>Signals</b>	<ul style="list-style-type: none"> <li>• 16 electrodes (A1→A12, B1→B4)</li> <li>• 2 Ground</li> </ul>
<b>Connections</b>	<ul style="list-style-type: none"> <li>• 18 0.05cm Vias</li> <li>• Omnetics 20 pin</li> </ul>
<b>Mounting Srew Diameter</b>	0.13cm