

The Electrode Interface Board (EIB-36-16TT) is mounted to microdrive hardware and provides the electronic signal connection between electrode/tetrode wires and two Headstage 36 Pre-amplifiers. The EIB-36-16TT also provides mechanical connection between microdrive hardware and the two HS-36.

The EIB does not contain any active electronics, and can pass signals in either direction via the Headstages buffer amplifiers.

HS-36 Connection

The two HS-36 pre-amplifiers are connected to the EIB with two double row omnetics connections. Make sure to line up the guide pins and the silk screens that read, "Omnetics," on all four omnetics (2 on the EIBs and 2 on the Headstages).

EIB-36-16TT Mounting

The EIB-36-16TT is designed for mounting on a microdrive. Use the screw holes (on the right and left) to mount the EIB-36-16TT securely to a microdrive.

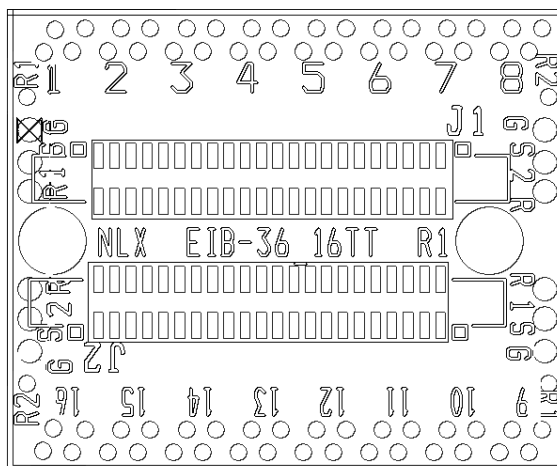
Electrode Connection

Tetrode 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-36-16TT uses small EIB pins (.03 cm/0.012").

WARNING: If stimulus lines are connected to electrodes, ensure they are not shorted to +5V before turning on the Headstage power. Failure to check this may result in paralysis or death of the test subject

EIB Reuse

Reuse of the EIB-36-16TT is not recommended, but it is possible. If reuse of the EIB is required, please contact Neuralynx for assistance.



Technical Specifications:

Size (LxWxH)	2.2cm x 1.9cm x 0.6
Weight	1.35 grams
Signals	- 16 Tetrodes - 4 Ground (GND) - 4 References (REF1_REF4) - 4 Differential Stimulus channels (S1-, S1+, S2-, S2+)
Connections	• 80- 0.03cm Vias • 2-Omnetics 44 pin
Mounting Screw Diameter	0.13cm (1.9 cm from center to center of mounting screws)