

EIB-27: 27 Channel Electrode Interface



The Electrode Interface Board (EIB-27) is mounted to microdrive hardware and provides the electronic signal connection between electrode wires and a 27 channel Neuralynx Headstage Pre-amplifier (HS-27 and HS-27M). The EIB-27 also provides mechanical connection between microdrive hardware and the HS-27 or HS-27M.

The EIB-27 does not contain any active electronics, and can pass signals in either direction. The HS-27 or HS-27M will define the signal direction via its buffer amplifiers.

HS-27/HS-27M Connection

The HS-27 and HS-27M are connected to the EIB-27 with double row header pins. Both headstages have a blue power LED on one face of the headstage. The power LEDs should face towards the top of the EIB-27 where *Neuralynx* ©1999 is printed on the board.

EIB-27 Mounting

The EIB-27 is designed for mounting on a microdrive. Use the screw holes (on the right and left) to mount the EIB-27 securely to a microdrive.

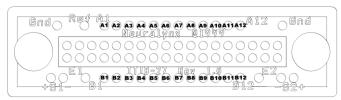
Electrode Connection

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-27 uses the Large EIB Pins (0.05cm/0.021").

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

EIB Reuse

Reuse of the EIB-27 is not recommended, but is possible. If reuse of the EIB-27 is required, please contact Neuralynx for assistance.



EIB-27: Pin Layout (Top View)

Technical Specifications:

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Size (LxWxH)	3.3cm x 0.8cm x 0.7cm
Weight	1.54g
Signals	 • 24 electrodes (A1→A12, B1→B12) • 2 Ground • 1 Reference • 2 Differential Stimulus (S1-, S1+, S2-, S2+) • 2 Extra EEG channels (E1, E2)
Connections	• 33 0.05cm Vias • Milmax 36pin
Mounting Screw Diameter	0.25cm

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