

### EIB-36-PTB

The EIB-36-PTB is the Neuralynx EIB-36 that interfaces with 32 channel Plexon, TBSI, and Blackrock headstages.

### Headstage Connection

Pin 1 is shown in the PC Board Layout.

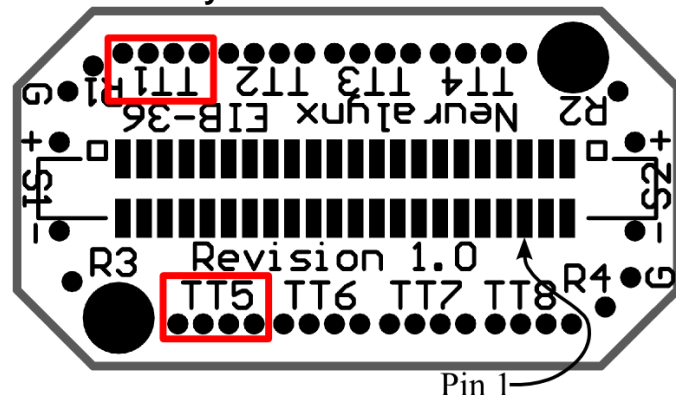
### Electrode Connection

Electrode wires are inserted from the bottom of the EIB. Insulation does not need to be removed from the wire if using EIB Pins provided by Neuralynx. See the Electrode Attachment Guide for more information on using EIB Pins. The EIB-36-PTB uses the Small EIB Pins(0.03cm/0.012”).

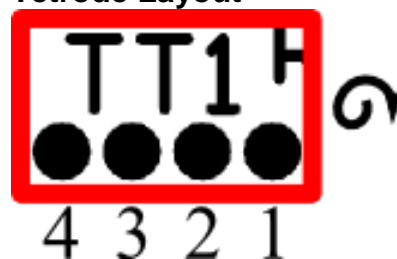
### EIB Reuse

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

### PC Board Layout



### Tetrode Layout



Tetrodes 1-4 are laid out according to the diagram to the left, when looking at the TT# label right side up.



Tetrodes 5-8 are laid out according to the diagram to the left, when looking at the TT# label right side up. Notice they are different than Tetrodes 1-4.

### Technical Specifications:

<b>Size (LxWxH)</b>	20mm x 11mm x 5.8mm
<b>Weight</b>	0.5g
<b>Signals</b>	<ul style="list-style-type: none"> <li>• 32 Signal Connections</li> <li>• 2 Reference Connections</li> <li>• 2 Ground Connections</li> <li>• 4 Stimulus Connections</li> </ul>
<b>Connections</b>	Input: 0.03cm/0.021” EIB Holes Output: (1) Headstage Omnetics Connectors

Neuralynx		Plexon			Blackrock	TBSI
EIB-36-PTB		HST/32o25-36P-GR	HST/32o25-36P-TR	HST/32V-G20	CerePlax M	M/W Series
TT1.1	A1	Channel 16	Channel 16	Ch 16 In	32	Channel 2
TT1.2	A2	Channel 15	Channel 15	Ch 15 In	30	Channel 4
TT1.3	A3	Channel 14	Channel 14	Ch 14 In	28	Channel 6
TT1.4	A4	Channel 13	Channel 13	Ch 13 In	26	Channel 8
TT2.1	A5	Channel 12	Channel 12	Ch 12 In	24	Channel 10
TT2.2	A6	Channel 11	Channel 11	Ch 11 In	22	Channel 12
TT2.3	A7	Channel 10	Channel 10	Ch 10 In	20	Channel 14
TT2.4	A8	Channel 9	Channel 9	Ch 9 In	18	Channel 16
TT3.1	A9	Channel 8	Channel 8	Ch 8 In	16	Channel 18
TT3.2	A10	Channel 7	Channel 7	Ch 7 In	14	Channel 20
TT3.3	A11	Channel 6	Channel 6	Ch 6 In	12	Channel 22
TT3.4	A12	Channel 5	Channel 5	Ch 5 In	10	Channel 24
TT4.1	A13	Channel 4	Channel 4	Ch 4 In	08	Channel 26
TT4.2	A14	Channel 3	Channel 3	Ch 3 In	06	Channel 28
TT4.3	A15	Channel 2	Channel 2	Ch 2 In	04	Channel 30
TT4.4	A16	Channel 1	Channel 1	Ch 1 In	02	No connect
TT5.1	B1	Channel 32	Channel 32	Ch 32 In	31	Channel 1
TT5.2	B2	Channel 31	Channel 31	Ch 31 In	29	Channel 3
TT5.3	B3	Channel 30	Channel 30	Ch 30 In	27	Channel 5
TT5.4	B4	Channel 29	Channel 29	Ch 29 In	25	Channel 7
TT6.1	B5	Channel 28	Channel 28	Ch 28 In	23	Channel 9
TT6.2	B6	Channel 27	Channel 27	Ch 27 In	21	Channel 11
TT6.3	B7	Channel 26	Channel 26	Ch 26 In	19	Channel 13
TT6.4	B8	Channel 25	Channel 25	Ch 25 In	17	Channel 15
TT7.1	B9	Channel 24	Channel 24	Ch 24 In	15	Channel 17
TT7.2	B10	Channel 23	Channel 23	Ch 23 In	13	Channel 19
TT7.3	B11	Channel 22	Channel 22	Ch 22 In	11	Channel 21
TT7.4	B12	Channel 21	Channel 21	Ch 21 In	09	Channel 23
TT8.1	B13	Channel 20	Channel 20	Ch 20 In	07	Channel 25
TT8.2	B14	Channel 19	Channel 19	Ch 19 In	05	Channel 27
TT8.3	B15	Channel 18	Channel 18	Ch 18 In	03	Channel 29
TT8.4	B16	Channel 17	Channel 17	Ch 17 In	01	Channel 31
Ref1		GND	Ref #1	Reference #1 In	R	ACgnd
Ref2(Grounded)		GND	GND	Ground	G	ACgnd
Ref3(Grounded)		GND	GND	Ground	G	ACgnd
Ref4		GND	Ref #2	Reference #2 In	R	ACgnd

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