

The ZIF-Clip® Headstages

System 3



Overview. The ZIF-Clip® headstage (Patent No. 7540752) features an innovative, hinged headstage design that automatically aligns high density connectors on the headstage and probe array. The design ensures a quick, easy connection that snaps in place, firmly locking the headstage and probe with almost no insertion force applied to the subject. The miniature electronics contained within the headstage allow for high channel densities in an extremely compact structure. An aluminum finish protects the sensitive electronics and provides increased durability. LEDs can be added for motion tracking applications.

Amplifier Compatibility. ZIF-Clip® headstages are designed for Z-Series preamplifiers. Adapters for other amplifiers are available on request.

Probe Compatibility. ZIF-Clip® headstages are recommended for use with probe impedances ranging from 20 kOhm to 5 MOhm. By default, ground and reference are separate on all ZIF-Clip® headstages, yielding a differential configuration. Reference and ground may be tied together on the headstage adapter or ZIF-Clip® microwire array for single-ended configurations. A variety of adapters are available for both chronic and acute applications.

Passive Headstages. ZIF-Clip® passive headstages contain no active electronics. They provide passive cabling in the ZIF-Clip® form factors.

Technical Specifications:

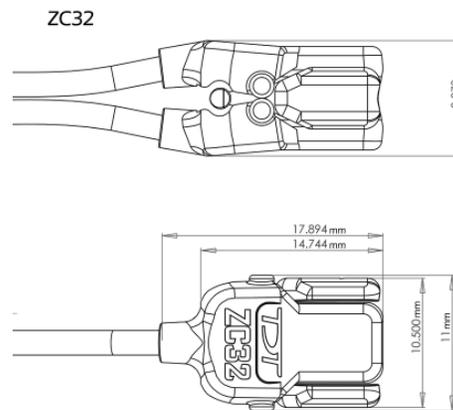
Number of Channels:	16, 32, 64, 96, 128
Input Referred Noise:	3 μ VRMS bandwidth 300-3000 Hz 6 μ VRMS bandwidth 30-8000 Hz
Frequency Response:	DC - 25 kHz
Headstage Gain:	Unity [1x]

16 and 32 Channel ZIF-Clip® Headstages

Ideal for use with TDT ZIF-Clip® Microwire Arrays.

Dimensions: 14.74 mm x 11.00 mm x 9.37 mm

Mass: 2.6 g



NOTE: DIMENSIONS ARE THE SAME FOR 16 AND 32 CHANNEL VERSIONS

16 Channel Headstages

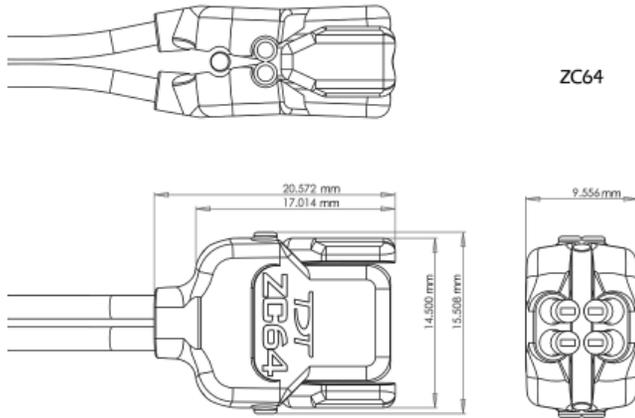
Connectors:	1 x Mini-DB26
Pins:	20-pin
Compatible	
Adapters:	ZCA-DIP16 for Acute Probes ZCA-OMN16 for Chronic Probes ZCA-UP16 For Plextrode Acute Probes ZCA-MIL16 For Mil-Max Probes

32 Channel Headstages

Connectors:	2 x Mini-DB26
Pins:	36-pin
Compatible	
Adapters:	ZCA-NN32 for NeuroNexus Acute Probes ZCA-UP24 for Plextrode Acute Probes ZCA-OMN32 for Omnetics Based Probes ZCA-MIL32 For Mil-Max Probes

The ZIF-Clip® Headstages

64 Channel ZIF-Clip® Headstage



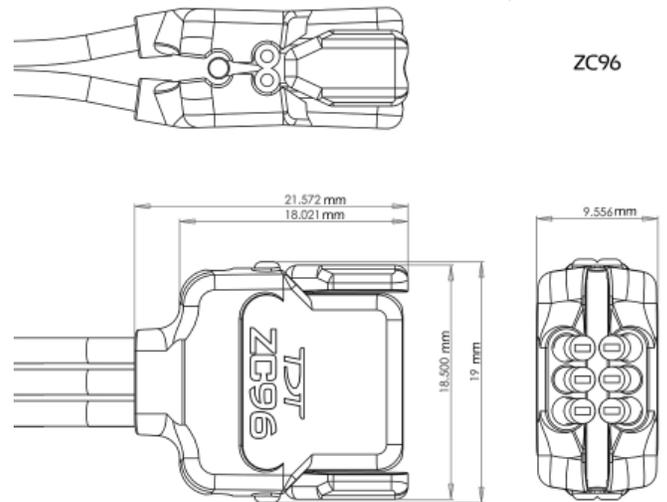
Dimensions: 17.01 mm x 15.51 mm x 9.56 mm
 Mass: 4.8 g
 Connectors: 4 x Mini-DB26
 Pins: 68-pin
 Compatible
 Adapters: ZCA-NN64 for NeuroNexus Acute Probes
 ZCA-GM60 for Gray Matter Chronic Microdrive

Available with LEDs for motion tracking applications.

ZIF-Clip® Headstage Part Numbers:

- ZC16, 16 channels
- ZC16-LED, 16 channels with LEDs
- ZC16-P, 16 passive channels
- ZC32, 32 channels
- ZC32-LED, 32 channels with LEDs
- ZC32-P, 32 passive channels
- ZC64, 64 channels
- ZC64-LED, 64 channels with LEDs
- ZC64-P, 64 passive channels
- ZC96, 96 channels
- ZC96-LED, 96 channels with LEDs
- ZC96-P, 96 passive channels
- ZC128, 128 channels
- ZC128-LED, 128 channels with LEDs
- ZC128-P, 128 passive channels

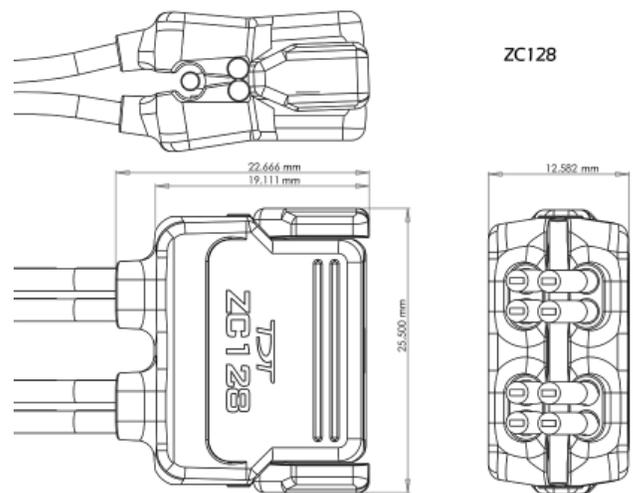
96 Channel ZIF-Clip® Headstage



Dimensions: 18.02 mm x 19.00 mm x 9.56 mm
 Mass: 6.5 g
 Connectors: 6 x Mini-DB26
 Pins: 100-pin
 Compatible
 Adapters: ZCA-CK96A for CyberKinetics CerePort Chronic Probe
 ZCA-OMN96 for Chronic Probes

Available with LEDs for motion tracking applications.

128 Channel ZIF-Clip® Headstage



Dimensions: 19.11 mm x 25.50 mm x 12.58 mm
 Mass: 9.9 g
 Connectors: 8 x Mini-DB26
 Pins: 136-pin

Available with LEDs for motion tracking applications.

