

NeuroNexus

X-SERIES

X-HEADSTAGE™

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Experience the future of neural interfacing with our high-fidelity bidirectional neural interface, designed for superior electrical stimuli delivery and large-scale electrode recording.

Key Benefits:

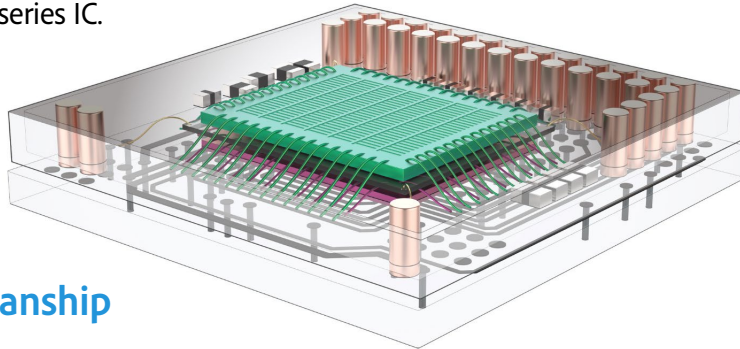
- **Compact Design:** Advanced headstage with over 70% volume reduction compared to conventional designs.
- **Enhanced Welfare:** Significantly reduces stress and enhances the welfare of research animals.
- **Improved Outcomes:** Smaller size leads to better experimental results.

Turnkey Solutions:

- Developed in partnership with KonteX Neuroscience.
- Optimized for use with NeuroNexus microelectrode arrays and Radiens™.

Custom Tuned Chip

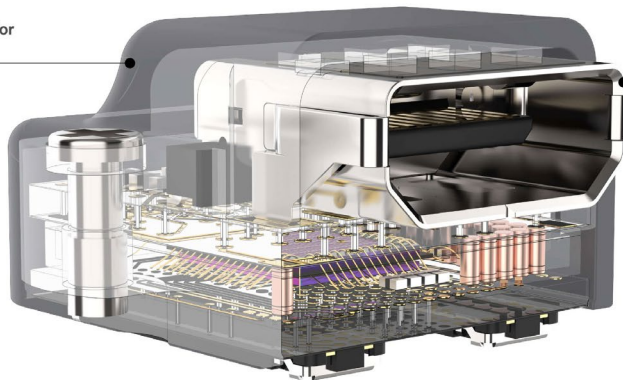
Advanced System-in-Package (SiP) design to maximum functionality and minimize footprint based on RHD-, RHS-2000 series IC.



Crafted Workmanship

Configurable Armor for Different Scenario

- Naked_{Armor}
- Screw_{Armor}
- Mini_{Armor}
- IP68_{Armor}



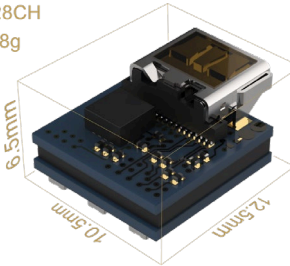
Configurable Input Connector

- µHDMI_{Connector}
- Omnetics_{Connector}

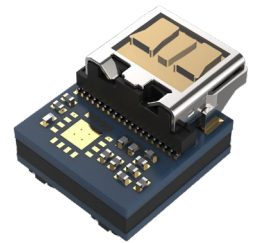


Minimized impact on the animal with the smallest active chronic headstages available in the market

X6R
128CH
0.8g



Naked Armor



Mini Armor



Screw Armor



IP68 Armor



NOTE: An IP68 rating means a device can survive against dust and up to 1.5 meters of water for 30 minutes.



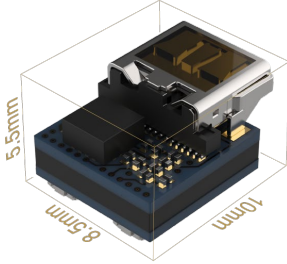
NeuroNexus

X-SERIES

X-HEADSTAGE™

X3R

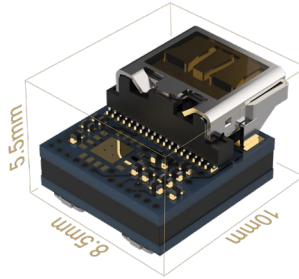
32CH
0.6g



32, 64 Channels, Built-in IMU
Smallest Recording Headstage

X3SR

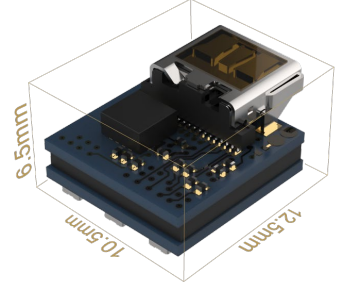
32CH
0.6g



32, 64-Channel Switchable
Stimulation-Recording Headstage

X6R

128CH
0.8g



128+Channels, Built-in IMU High
Channel Recording Headstage

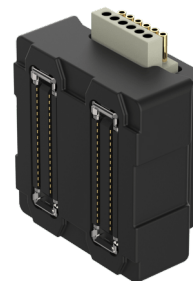
Repairable, Reusable, Cost Saving

Engineered for cost efficiency and durability, the X-HEADSTAGE™ offers exceptional value in neural interfacing.

Key Features:

- **Reusable Design:** Validated for reuse even after being dental cemented to the skull.
- **Repairable Connectors:** Omnetics connector can be repaired or replaced, avoiding the need to discard the headstage.
- **Flexible Configurations:** Compatible with Intan's SPI connector or μ HDMI, allowing the use of low-cost, flexible μ HDMI cables.

Intan SPI OMN12-IPM



Omnetics 64 Probe Adapter

μ HDMI-IPM



Acute 64 Probe Adapter

Embeddable, Better Signal, Quick Startup

The ultra-small size X-HEADSTAGE™ implants with electrodes, transforming passive implants into active for better signal quality. HDMI connector ensures quick startup without anesthesia or special training.

Flexible Connectivity

X-series X-HEADSTAGE™, adapters, and accessories are modular and cross-compatible with Intan ecosystem and many existing probe connector types.



EIB Adapter for Microwires



SR Headstage Remapper



EIB Jumper Cable

