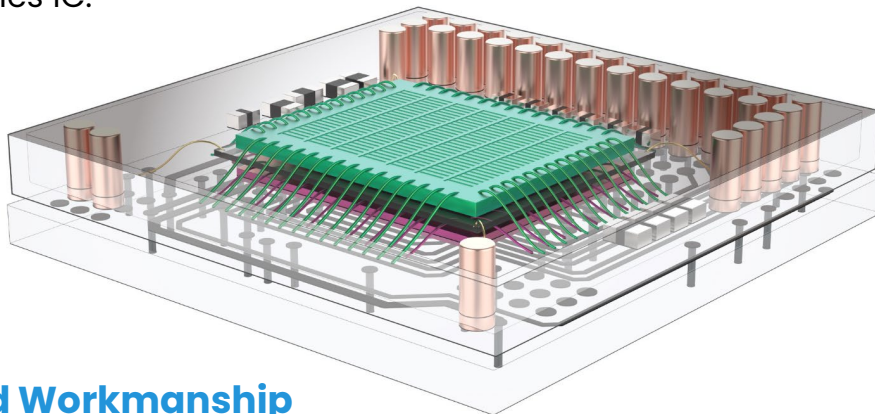


X-HEADSTAGE™ is a high-fidelity bidirectional neural interface for delivering electrical stimuli and recording from a large number of electrodes. The advanced headstage design results in a volume reduction of more than 70% compared to conventional designs. The size advantage significantly reduces stress, enhances the welfare of the animals, and improves experimental outcome.

NeuroNexus offers its X-Series products in partnership with KonteX Neuroscience and tuned for our microelectrode arrays and Radiens™ for the best and turnkey experience.

Custom Tuned Chip

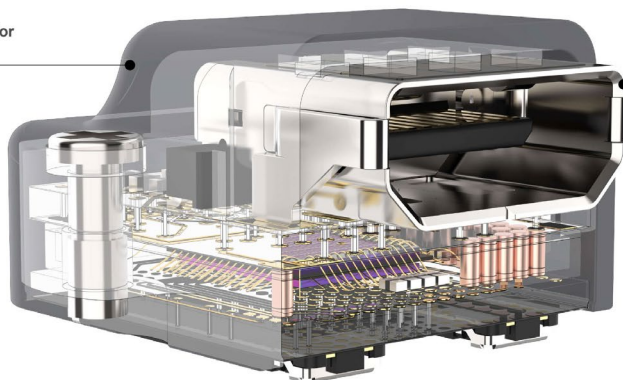
Advanced System-in-Package (SiP) design to maximum functionality and minimize footprint based on RHD-, RHS-2000 series IC.



Crafted Workmanship

Configurable Armor for Different Scenario

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



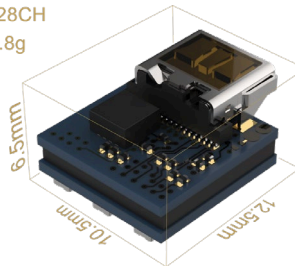
Configurable Input Connector

- µHDMI Connector
- Omnetics Connector

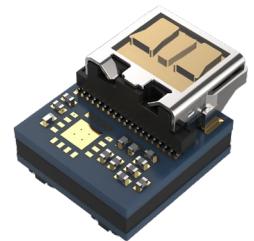


Minimized impact on the animal with the smallest active chronic headstages available in the market

X6R
128CH
0.8g



Naked Armor



Mini Armor



Screw Armor



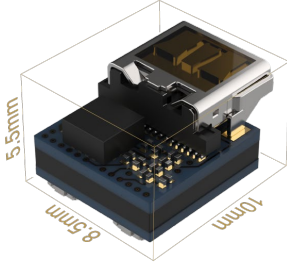
IP68 Armor



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

X3R

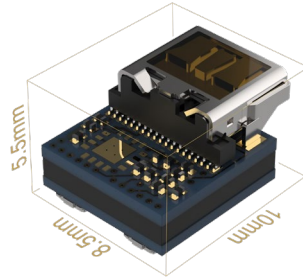
32CH
0.6g



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

X3SR

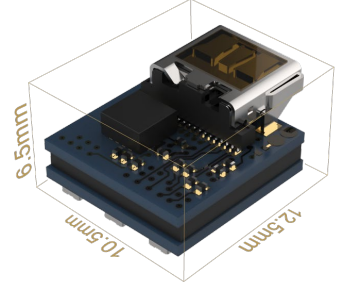
32CH
0.6g



32, 64-Channel
Switchable Stimulation-
Recording Headstage

X6R

128CH
0.8g

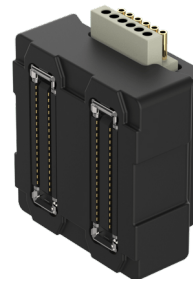


128+Channels, Built-in IMU
High Channel Recording
Headstage

Repairable, Reusable, Cost Saving

X-HEADSTAGE™ is designed with cost efficiency from the start. It is validated to be reusable even after dental cemented on the skull. The Omnetics connector can be repaired or replaced without throwing away the expensive headstage. **X-HEADSTAGE™** can be configured with Intan's SPI connector or μ HDMI to utilize low-cost, flexible μ HDMI cables.

Intan SPI OMN12-IPM



μ HDMI-IPM



Embeddable, Better Signal, Quick Startup

The ultra-small size enables **X-HEADSTAGE™** to be implanted with the electrode, transforming passive implants into active. Active implants offer better signal quality. HDMI connector solution enables quick startup time without needing to anesthetize animals or train staff on plugin techniques.

Omnetics 64 Probe Adapter



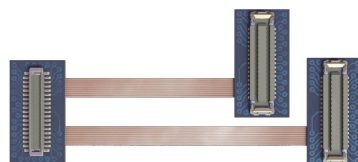
Acute 64 Probe Adapter



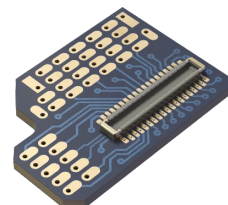
Flexible Connectivity

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

EIB Jumper Cable



EIB Adapter for Microwires



SR Headstage Remapper

