NeuraLynx

advanced electrophysiology solutions
for data acquisition & experiment control

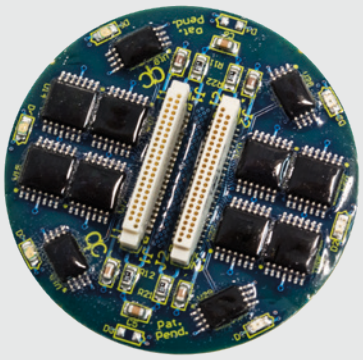
Headstage Pre-amplifiers

small low weight low noise

QuickClip® Connection – 16, 36 & 72 Channels

fast, easy, reliable live animal connection for less stress on animal & researcher

- Magnetically self-aligns & initiates connection to EIB
- Minimal insertion force for final connector seating
- No exposed pins to bend or break
- High number of connect/disconnect cycles without loss of signal
- Low profile mount for more natural subject behavior
- Advanced video tracking LED system
- Differential stimulus channels



HS-72-QC

Standard Headstages
8 to 36 Channels

- Omnetics or Mill-Max connectors
- Differential stimulus channels
- LEDs for behavioral tracking

HS-36

Digital Multiplexing (MUX) Headstages
16 to 64 Channels

digitize analog neural signals on the headstage

HS-64-MUX

- LEDs for behavioral tracking
- Latch option for added retention
- 2 differential stimulation channels
- Combine analog & MUX headstages in **Digital Lynx SX**
- **Digital Lynx 4/16SX** upgrade supports MUX headstages

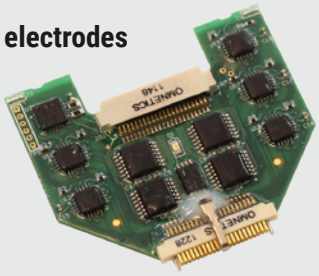
Ideal for start up labs or secondary systems!

- Reduces tether cable wire count, weight, size & system cost
- Low price point to use **Cheetah** software

Stim Headstages – 18 & 36 Channels

stimulate & record from all electrodes

Deliver stimulation current to microwire recording electrodes & stimulation probes with a small switch array for each electrode connection to 2 stimulus sources and ground



HS-36-Stim

- Embedded micro-controller stores & executes stimulation sequences
- Software-controlled stimulus sequences delivered to multiple electrodes simultaneously
- Record neural activity immediately after stimulation with DC coupled Digital Lynx SX input boards

Compatibility

All Neuralynx headstages are compatible with:

- **Digital Lynx S/SX**
- **Saturn Commutators**
- **EIBs, Adapters & Tethers**
- **Silicon Probes**
- **Microdrives**

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Ask about our **System Maintenance Plan.**

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Microdrives, EIBs, Adapters & Tethers

Halo Microdrives

Less expensive and easier to build, with a variety of standard and custom **Exit Tip** designs to dictate electrode insertion pattern. Compatible with our wired and wireless data acquisition systems, and with **Fiber Mounted LEDs** for optogenetic stimulus. Independently drivable shuttles using custom "half moon" drive screw head & calibrated Turn Tool for positive, accurate 16 micron depth adjustments.

- 4, 8, or 16 tetrode drive shuttles
- 1 or 2 additional shuttles for fiber optic or reference electrodes
- 6mm (**Halo-5/10-Mini**) or 11mm (**Halo-10/18**) shuttle travel
- Halo-10 and Halo-18 are reusable
- Lightweight, solid & durable with a shorter profile
- **QuickClip** or **Omnetics EIB** options

Halo-10-Mini

Halo-10

Halo-18

Halo-5

VersaDrives

Independently drivable tetrode implants to record with headstages with Mill-Max connectors.

Warp Drives

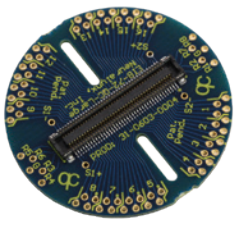
Reusable microdrives utilizing “electrode-in-cannula” technology and eliminating the need for EIBs.

Harlan Drives

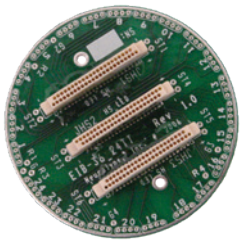
Reusable, easy loading, independently drivable tetrodes with custom pre-drilled tips.

Electrode Interface Boards (EIBs)

Provide microwire connections to headstages with Omnetics, Mill-Max or QuickClip connectors. Permanently mounted directly on Microdrive or subject. Various channel counts, references, differential stim lines and grounds available. EIB Pins provide easy and reliable connections to the delicate electrode wires.



EIB-72-QC Large



EIB-36-24TT

Adapters

Make the connections between Tethers and system inputs, and between EIB variations to headstages, microdrives and silicon probes.

Tethers

Flexible, lightweight and durable tethers connect headstages to Digital Lynx SX system, either directly with an adapter or through the Saturn Commutator. A variety of shielded/unshielded, jacket materials, weights, lengths and connector ends available for specific headstages and subject sizes.

MathWorks Partner

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