



CORE2 is the entry model of KonteX's XDAQ line of multimodal electrophysiology tool. Record high-quality, high-bandwidth electrophysiology signals and deliver electrical stimuli in one device. Now includes out of box support for Neuropixels also!

FEATURES

- All new second-generation XDAQ hardware: upgraded high-speed, low-latency PC interface
- Out-of-box support for Neuropixels
- Supports KONTEX X-Headstages as well as all Intan-compatible headstages
- Low-cost, flexible HDMI cable
- Electrically isolated headstage ports for best signal quality
- Line out for real-time audio monitoring
- Triggered episodic recording
- *in situ* impedance measurement
- Upgradable functionality

Neuropixels Experiment

2 ports.

Plug-and-play. No need for QBSC. Neuropixels 2.0, coming soon (free firmware upgrade).

Passive Probe Experiment

Stimulation - 16 ch, 32 Ch

- Constant current, $\pm 10\text{nA}$ to $\pm 2.5\text{mA}$ output
- Flexible waveform: biphasic, triphasic, burst
- $33\mu\text{s}$ minimal time step
- Stimulation Compliance: $\pm 7\text{V}$

Recording - 512 Ch

In conjunction with X-Headstage:

- 16-bit ADC, $\pm 5\text{mV}$ input
- $2.4 \mu\text{Vrms}$ Input-referred noise
- Hardware HPF: 100 - 20k Hz
- Hardware LPF: 0.1 - 500 Hz

Sampling rate: 1kS/s to 30kS/s per channel

SOFTWARE

Compatible with NeuroNexus Radiens Analytics suite.
Full open source application support.
OpenEphys GUI or Intan RHX.



COMPUTER REQUIREMENT

Modern PC with 6 core CPU and 16GB of RAM
One Thunderbolt 3 or above port



POWER

USB-C PD 60W (20V, 3A)

CONNECTIVITY

- 2 Ports for Neuropixels
- 4 HDMI Ports for passive probes:
 - 128ch recording per port or one port for 32ch stim-rec
- 1 BNC Port for Digital IN
- 1 BNC Port for Digital OUT
- 1 BNC Port for Analog IN
- 1 BNC Port for Analog OUT
- 1 D-Sub25 Port for an additional 6 Digital IO
- 2 MicroHDMI Ports for IO Expansion
- 2 Thunderbolt ports for Data Transfer
- 1 USB PD Port for Power
- 1 Chasis/earth ground Port
- 1 System ground Port



GENERAL PURPOSE IO

	Onboard	Max*	Spec
Digital IN	7	31	Logic High: 2.2-5.5V Logic Low: 0V
Digital OUT	7	31	Logic High: 3.3 or 5V Logic Low: 0V
Analog IN	1	7	+/- 10V
Analog OUT	1	7	+/- 10V

* requires XDAQ IO Expander