Product / Technology	Applications and Unique Features	Regulatory Status
NeuroPort Biopotential Signal Processing System - Real-time data acquisition and processing system for up to 512 channels	• Data acquisition system for full-bandwidth neural recording, experiment control, signal analysis and display • Highly customizable through Matlab/C++ APIs • Real-time data access ideal for closed-loop applications such and brain-machine interfaces	510(k)

Auxiliary Support	Description
Engineering Expertise	• Product development using FDA Design Control Processes • Microfabrication of silicon- and polymer-based devices • Custom electrode array architectures for neural recording and stimulation • Analog and digital circuit design • Embedded systems • Custom ASIC development • Hermetic packaging • Wireless data transmission • Custom software development for experiment control, data acquisition, analysis and display • Custom neural recording headstages and adapters
Regulatory Assistance	• Rights of reference to leverage existing data from cleared and pre-clinical devices towards new IDE submissions • Support and expertise in IDE submissions • Support and expertise in IRB submissions
Data Repository	• Centralized repository for data sharing • Physiological data • Analysis code

Additional Support

Blackrock will provide technical support assistance towards the successful execution of any joint projects under the BRAIN program. Blackrock may also provide software and hardware engineering support as required for the project.