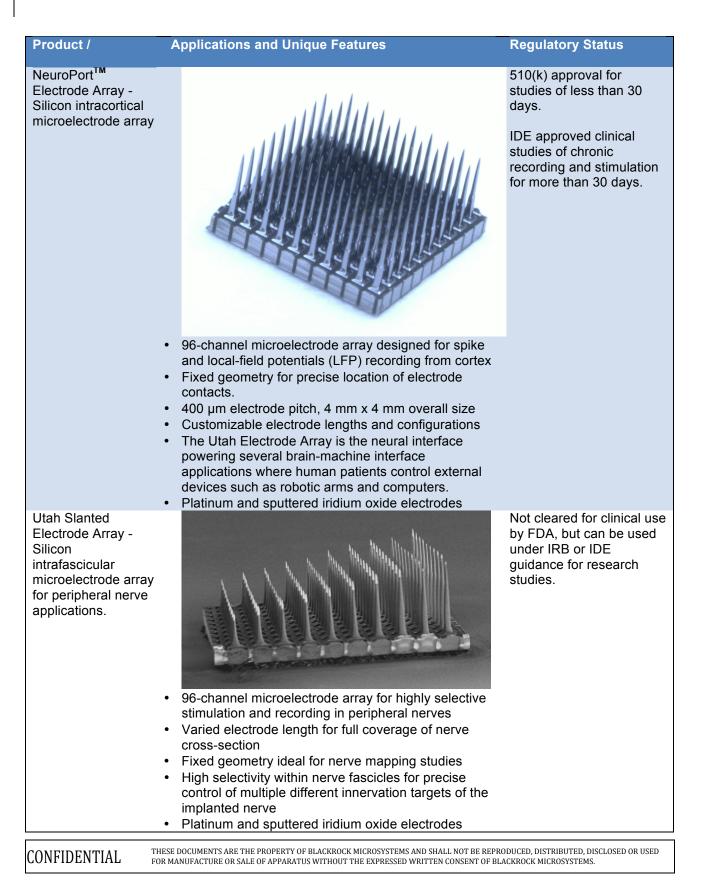
COMPANY Materials to be provided to NIH Grantees as part of the Grant Program



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)
or 256 channel	 Full-featured NeuroPort data acquisition system combined with clinical video EEG software Allows clinical long-term epilepsy monitoring to be combined, in a single system, with research objectives such as single-unit recording 	510(k)
CerePlex I - 128	 Fully implantable 128-ch amplifier for full-bandwidth recordings of spike and local field potentials (LFPs). Can be interfaced to any front-end electrode such as the Utah Electrode Array, ECoG grids, µECoG grids, depth electrodes, etc On-board digitization and multiplexing reduces transcutaneous lead to a single 11-contact pigtail connector to maximize patient comfort and minimize infection risk 	Not cleared for clinical use by FDA, but can be used under IRB or IDE guidance for research studies.
CereStim - 96 channel stimulator for micro and macro electrodes	 Software controlled stimulation for up to 96 channels Available for both micro and macro electrodes Highly flexible stimulation control through Matlab/C++ API 	Not cleared for clinical use by FDA, but can be used under IRB or IDE guidance for research studies.
Electrode Inserter system	 Pneumatic insertion system for Utah Electrode Array and Utah Slanted Electrode Array for cortical and peripheral nerve applications 	510(k)
Splitter box	 Head stage allowing the Blackrock NeuroPort Biopotential Signal Processing System to share electrode signals with 3rd party acquisition systems 	510(k)

Auxiliary Support	Description
Engineering Experti	 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
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	 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

510(k) Clearances	Number
Neuroport [™] Cortical Microelectrode Array Systems	K042384
Neuroport [™] Signal Processor Systems	K042626
Neuroport [™] Biopotential Signal Processing System	K090957
Neuroport [™] Electrode SIROF	K110010
Neuroport [™] Electrode	K070272

Additional Support

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

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