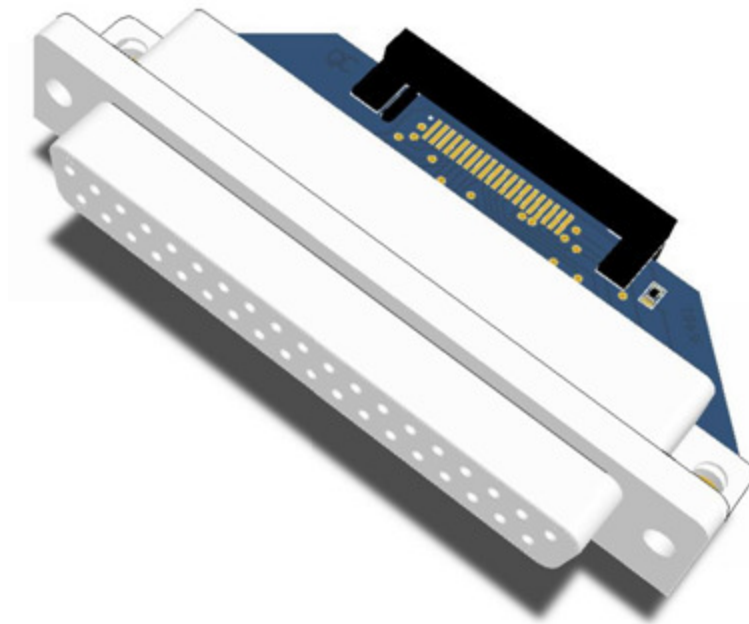


Blackrock QSE-Nspike Adapter Instructions for Use

PN 6463



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1 System Overview

The Blackrock QSE-Nspike Adaptor provides an interface between your acquisition system and the Cabrio Butterfly Adaptor for high fidelity transmission and recording of extracellular spikes and local field potentials from the brain. Figure 1-1 below shows an application overview of how the QSE-Nspike Adaptor fits into a complete neural recording system.

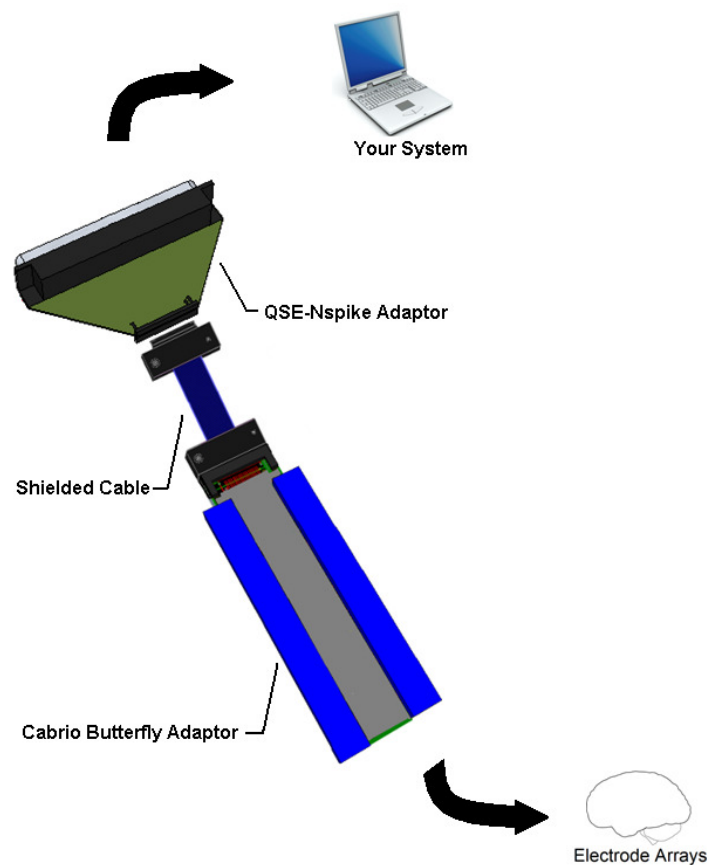


Figure 1-1: Application Overview

* Blackrock Cabrio Butterfly Adaptor and shielded cable are each purchased separately.

1.1 Packing List

- 1 QSE-Nspike Adaptor

- 1 User's Manual

2 Hardware

2.1 Blackrock QSE-Nspike Adaptor Pin-out

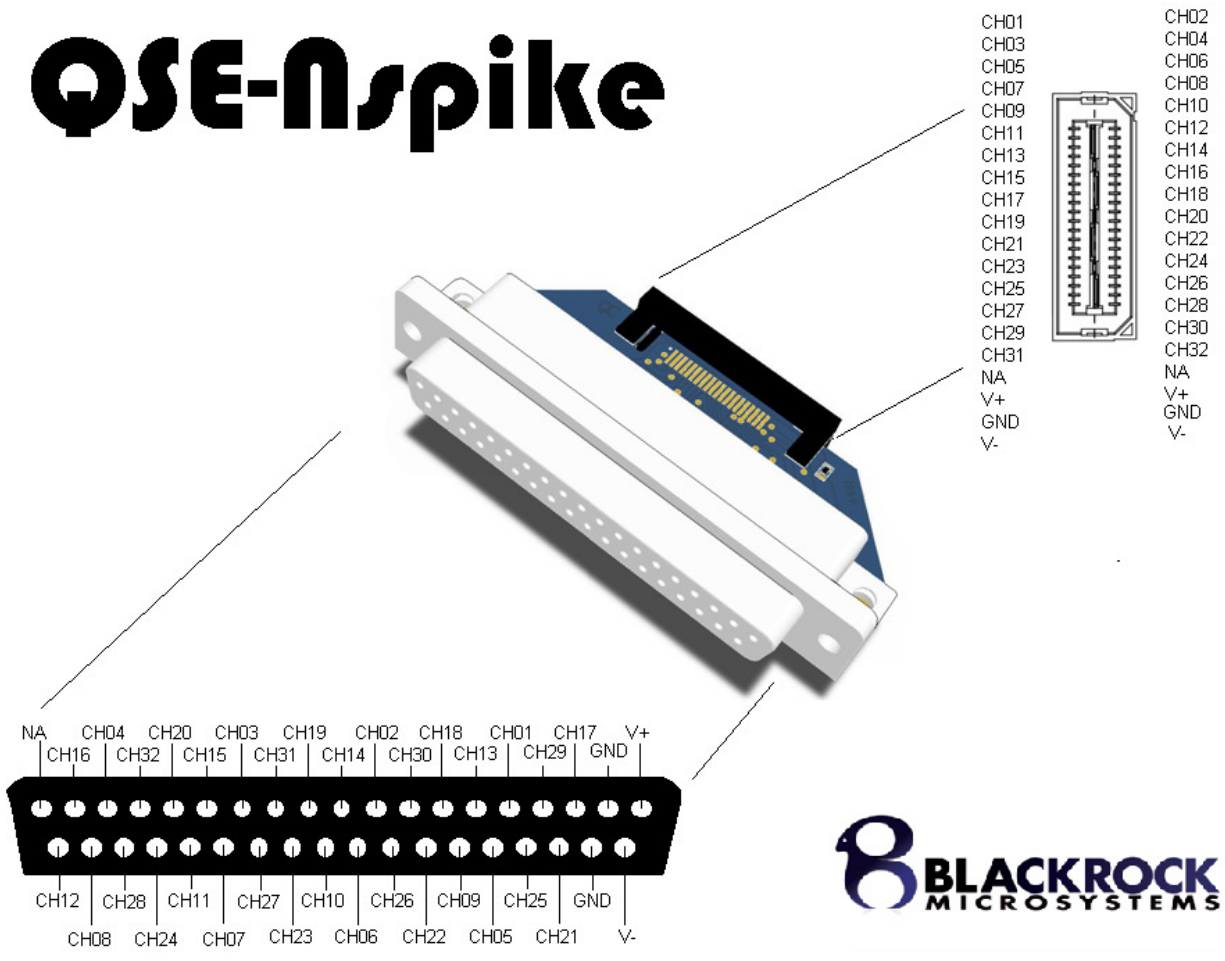


Figure 2-2: Blackrock QSE-Nspike Adaptor Pin-Out

*The NA pin on the DB37 Connector is reserved for Reference input. Please, contact us if the reference connection is required in your setup.

3 Warranty

Blackrock Microsystems, LLC warrants that its products are free from defects in materials and manufacturing for a period of one year from the date of shipment. Blackrock will, at its option, repair or replace any product that does not comply with this warranty. This warranty is voided by:

1. Any modification or attempted modification to the product done by anyone other than an authorized Blackrock employee
2. Any abuse, negligent handling or misapplication of the product.

This constitutes the sole warranty made by Blackrock, LLC. There are no other warranties, expressed or implied, which extend beyond those described herein or to anyone other than the original purchaser, including the implied warranties of merchantability and fitness for a particular purpose. In no event shall Blackrock Microsystems, LLC be liable for any incidental or consequential damages, or for the infringement of any patent rights or third party rights due to the use of its products.

3.1 Return Merchandise Authorization (RMA)

In the unlikely event that your adaptor needs to be returned to Blackrock for repair or maintenance, do not send any equipment back without a Return Merchandise Authorization Number. An RMA number will be issued to you by a Blackrock representative. If you need to obtain an RMA number, you may contact a product support representative at (801) 582-5533 or toll free at (866) 806-3692.

Once an RMA number has been issued, it is important to safely pack the returned item for shipping back to Blackrock. It is preferred that you save the original boxes and packing materials that your system arrived in for return shipment. Please address the package as follows:

Blackrock Microsystems, LLC
ATTN: RMA#
630 Komas Drive, Suite 200
Salt Lake City, UT 84108 USA
Tel: +1 (801) 582-5533