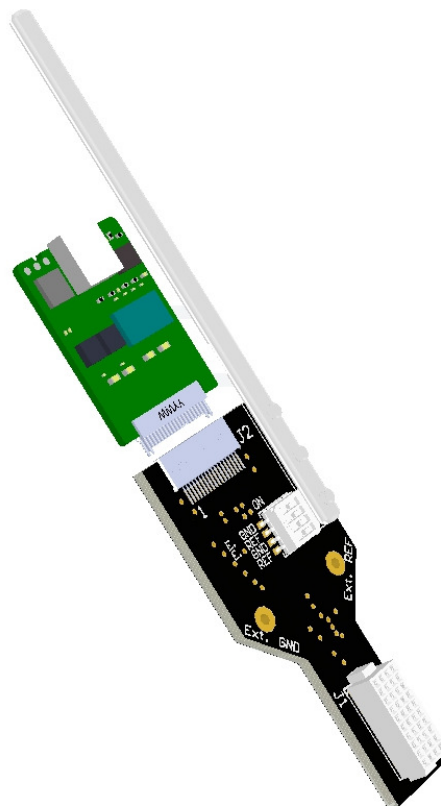


Blackrock's Omnetics NeuroNexus A32 Adapter

PN-8688



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1 Introduction

This assembly acts as an adapter between NeuroNexus A32 probes and Blackrock's Omnetics Headstages used for neural signal transmission. The Omnetics NeuroNexus A32 adapter has a 3" rod that is removable for use with any stereo tax arm that can support a 1/8" (3.175mm) diameter rod. The A32 Adapter also has two solder points for external reference or ground points with a switch to adjust referencing with the headstage.

2 Hardware

2.1 Blackrock Omnetics NeuroNexus A32 Adapter PN-8688

The diagram shows the Omnetics NeuroNexus A32 Adapter with a removable 1/8" x 3" rod. The top of the adapter has a pin layout labeled REF 02 04 06 08 10 12 14 16 18 20 22 24 26 28 30 32 GND. The bottom is labeled GND 01 03 05 07 09 11 13 15 17 19 21 23 25 27 29 31 REF. The adapter features a Samtec connector (J2) on the left and another connector (J1) on the right. Two external solder points are shown: 'Ext. REF' and 'Ext. GND'. A 4-position reference selection switch is located at the bottom right, with positions labeled 1, 2, 3, and 4. The switch is currently in the 'ON' position for all four settings.

Omnetics Date Code

32	30	31	28	29	27	25	22		21
GND	X	X	X	26	224	20	19		17
GND	REF	X	X	01	04	13	14		16
11	09	07	05	03	02	06	08		12

Position 4 ON: Selects reference from External Ground Solder Point
Position 3 ON: Selects reference from External Reference Solder Point
Position 2 ON: Selects reference from GND on Samtec Connector
Position 1 ON: Selects reference from REF on Samtec Connector

****Only one position should be ON for each reference selection switch**

3 Warranty

Blackrock Microsystems 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. 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, 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 adapter 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
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