

Application Note**Using the 99322 Remapper**

Catalog Number ADP/PBX-16v-MICH-2x2-TET

Plexon Part Number 12-02-A-02

The remapper is an accessory to the Plexon MAP data acquisition system that is required when using:

- A NeuroNexus acute 16 channel 2x2 tetrode probe
- A Plexon ADP/16V-18P-MICH or ADP/16o25-18P-MICH electrode adaptor to mount the probe
- A Plexon HST/16o25 or HST/16V headstage
- Tetrode data acquisition with the MAP System

The following illustration shows a top and bottom view of the remapper; the white dots identify the channel 1 pin on each connector.



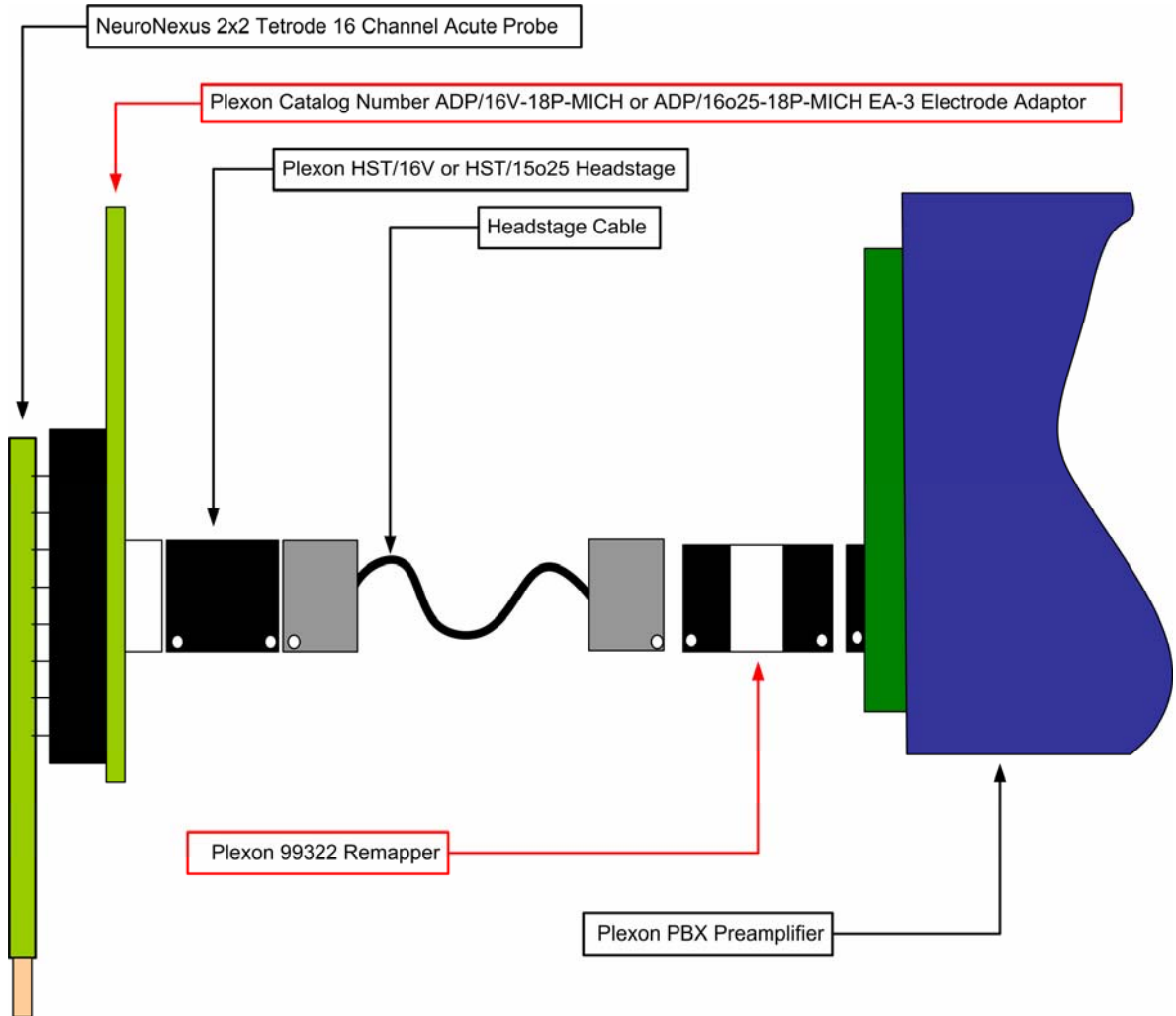
Top



Bottom

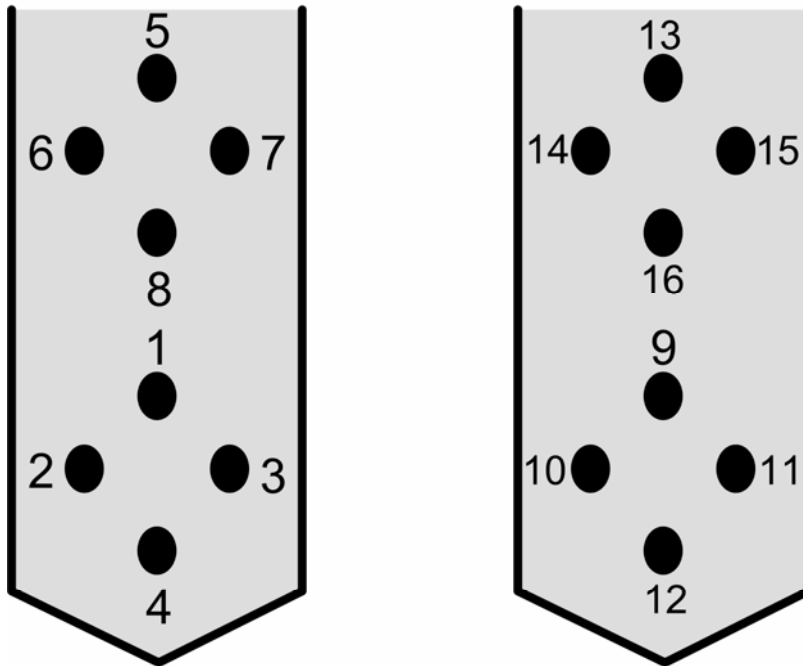
The remapper is for online capture of tetrode waveforms by the Plexon MAP system, which requires that the signals from the four electrodes comprising the tetrode be recorded on consecutively numbered recording channels 1-4, 5-8, etc... If you don't want to capture tetrode waveforms, then you don't need the remapper.

The remapper must be installed with a Plexon ADP/16V-18P-MICH or ADP/16o25-18P-MICH electrode adaptor. Install the remapper between the headstage (HST) cable and the preamp (PBX) input, as the following illustration shows.



It is a necessary condition that the four electrodes are connected to consecutively numbered recording channels in the MAP system for us to interpret the signals from those four electrodes as a tetraode. Furthermore, the highest numbered recording channel of the tetraode must be an integer multiple of 4. Having the four electrodes of the tetraode map to recording channels 2-5 would not meet the requirements of the MAP system.

This remapper assigns consecutive channels as follows.



Plexon MAP Recording
Channel Numbers with the
99322 Remapper