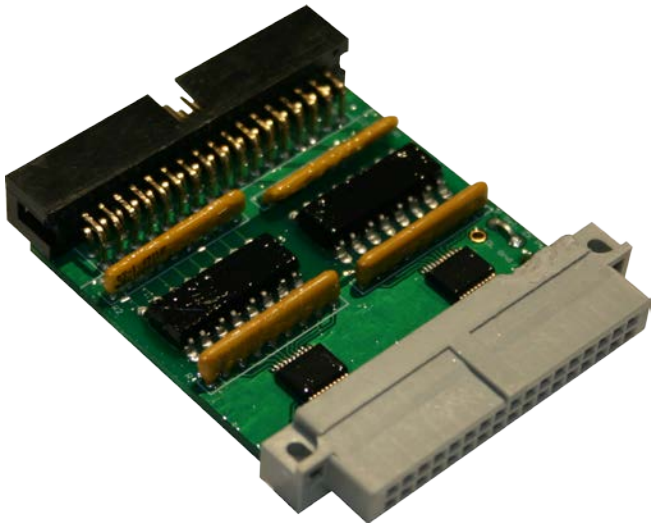


TTL Isolator

The TTL Isolator is a TTL device that isolates the Digital Lynx SX from external devices up to 5000V_{RMS}. This is accomplished using optically coupled isolators. It can only be used as an input for TTL signals.

Data Acquisition System Connection

The TTL Isolator can connect to either of the two 2x17 Pin TTL I/O Ports on the Digital Lynx SX. When connecting to the Digital Lynx SX, ensure the port's power is enabled and the TTL Port X/Y Power Indicator is illuminated. For information on enabling the power refer to the *16SX and 4SX DAS Section*.

External TTL Generator Connection

The Input Connector on the TTL Isolator matches the same pin layout on the TTL I/O Ports on the Digital Lynx SX. The +5V Power Rail is not passed through, as this would break the isolation barrier, but does power the Digital Lynx SX side of the circuitry. Remember that this device isolates the Digital Lynx SX Ground from the TTL Generator Ground, meaning you must connect the TTL Generator Ground connection to a Ground Connection on the input connector to create a return path. This device will not operate if this is not done correctly.

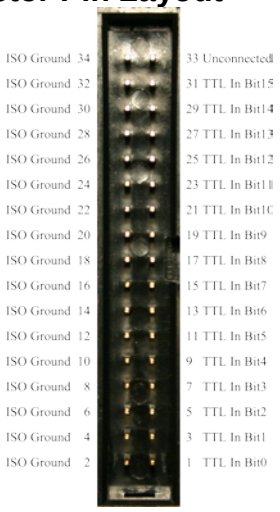
When to use this product

The TTL Isolator was specifically designed to stop external TTL Generators from inducing noise into the Digital Lynx SX. If connecting the grounds of the Digital Lynx SX and TTL Generator adds noise to your biological signals or creates TTL errors please use this device. The TTL Isolator also protects the Digital Lynx SX from being damaged by external TTL Generator errors and voltage transients. The TTL Isolator can also be used to translate different voltages to the 0V-5V TTL Levels of the Digital Lynx SX. Please inform Neuralynx if you intend to use it as a translator.

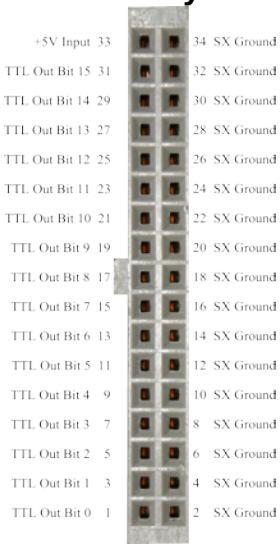
16SX and 4SX DAS

For more information on the Digital Lynx SX Data Acquisition System refer to its Users Manual found on the Neuralynx website.

Input Connector Pin Layout



Output Connector Pin Layout



105 Commercial Drive, Bozeman, MT 59715
Phone 406.585.4542 • Fax 866.585.1743
www.Neuralynx.com
support@Neuralynx.com

Revision 1.1
9/18/2013

Technical Specifications:

Size (LxWxH)	64mm x 55mm x 15mm
Weight	30.0g
Signals	• 16 Isolated(Input to Output) TTL Signals • Digital Lynx Ground Isolated form Input Connector Ground
Connections	Input: Male 2x17 0.1" Pitch Connector Output: Female 2x17 0.1" Pitch Connector

105 Commercial Drive, Bozeman, MT 59715
Phone 406.585.4542 • Fax 866.585.1743
www.Neuralynx.com
support@Neuralynx.com