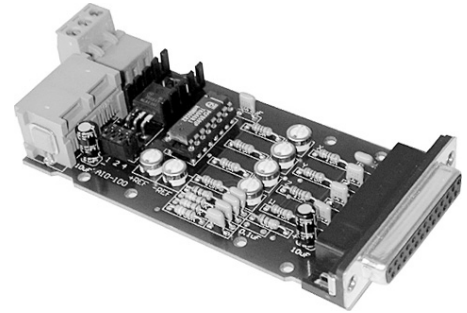


ANILINK NETWORK ACCESSORIES

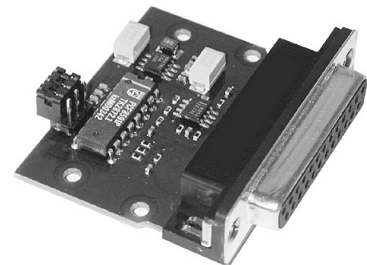
AIO-100 – ANALOG I/O CARD

The AIO-100 is a four input, one-output analog I/O peripheral module to be used with the OEM and Legend Series SmartMotors' and related control products. The card connects through the AniLink™ bus. This module allows an Animatics controller to read analog signals from external devices or control an external system with an analog signal. The range of signal voltage for both input and output is adjustable to a maximum of 0 to +5 VDC with eight bits of resolution.



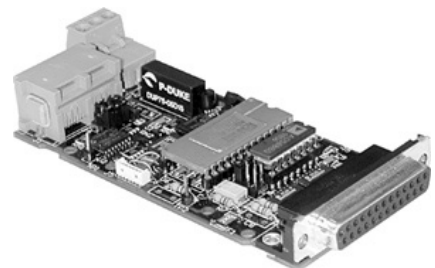
AIO-110 – ANALOG I/O CARD

Upper and lower limits are independently adjustable for the A/D or D/A functions, allowing the full 8 bit accuracy to be applied to small signal ranges. Each input channel can be centered independently. Up to eight AIO-100 modules can be addressed by a single SmartMotor. The card is powered by +5 V and ground from the SmartMotor or controller. These units are equipped with a voltage regulator allowing support from an external +6 V to +24 V source. The AIO-110 has four analog inputs, one 0 to 10 VDC and three 0 to 5 V. There is one analog output that creates 0 to +10 VDC and scaled output of 0 to +5 VDC. The resolution of the output signal is 8 bit.



AIO-116 – ANALOG I/O CARD

The AIO-116 has characteristics similar to the AIO-110 except for the addition of 16 bit accuracy and no output.



ANILINK NETWORK ACCESSORIES

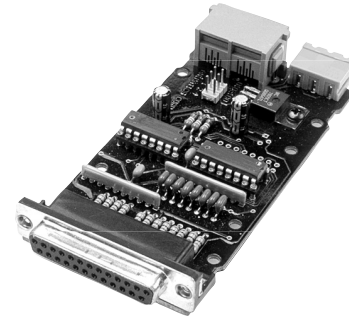
DIO-100 – DIGITAL I/O CARD

The DIO-100 is an 8-bit input or 8-bit output TTL-level digital Input/Output device for use on the AniLink™ bus. The DIO-100 can be used as an interface to many parallel communication devices, such as absolute encoders, PLCs, or custom control systems. Each uses one AniLink port address (8 max).

Each Input/Output can source as much as 2 mA or sink up to 10 mA. They reliably switch an electronic relay or SRC, but cannot drive a mechanical relay directly. All signals must be inputs or outputs at any one time.

Data is read from the DIO-100 eight bits at a time and arrives at the controller as an integer. This integer can then be parsed or used in mathematical equations allowing the controller to respond to conditions outside the system.

A data strobe signal, a read/write flag, and two address outputs are provided to allow a convenient data transfer protocol to external equipment. These signals can be ignored in applications using only simple Input/Output.

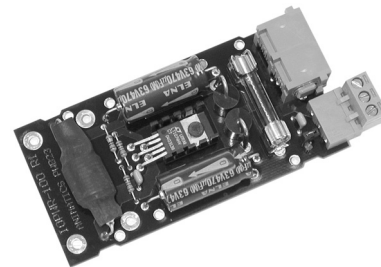


The **DIO-100** is plug-in compatible with the OEM and Legend Series SmartMotors'. As many as eight **DIO-100** modules can be uniquely addressed on a single AniLink bus.

The AniLink bus and DIO cards employ I²C technology. The chips are readily available and schematics may be obtained from Animatics for custom use for unique or price-sensitive applications. The SmartMotor is always the master over RC communications.

IOPWR105

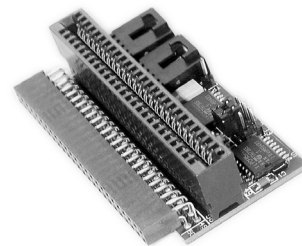
The IOPWR105 is a 24VDC to 5 VDC support for the AniLink bus. When multiple expansion modules exist on a bus, current demand can draw the host auxiliary power supply below acceptable levels.



OPTO1

Expanded I/O is just a step away with the OPTO1 AniLink interface adapter. The OPTO1 interfaces directly with industry standard 16 channel OPTO racks, allowing easy expansion into your machine design.

This adapter card plugs into the industry standard I/O Module Rack such as OPTO22™, making the SmartMotor™ control the industry standard I/O module. The adapter receives a DIN or a DOUT command from the SmartMotor on the AniLink port and controls up to 16 digital modules on the rack as a group of 8 inputs or outputs. Each unit takes up two AniLink addresses (4 units max per motor).



The adapter operates on +5 VDC that can be supplied by the SmartMotor through the AniLink connection. The logic sides of the I/O modules on the rack must be +5 VDC. The adapter card does not support I/O modules that require more than 25 mA of input current.