IOboard.net

IOboard-A8i4o-D4i2o Ethernet Industrial IO Module

IOboard-A8i4o-D4i2o is an interface for 8 analog inputs, 4 analog outputs, 4 digital inputs and 2 digital outputs (optoisolated). Housed in a DIN rail mountable case with industrial screw terminals, IOboard-1 modules are connected to a control computer via Ethernet and TCP/IP, and feature smart firmware to configure the device, to read and set IO lines and to set event triggers.

IOboard modules are interfaces for analog and digital I/O signals over Ethernet. Digital I/O provides monitoring and control of high/low, or open/close industrial devices. Analog inputs and outputs support a wide variety of industrial devices. High resolution, low noise, A/D and D/A converters deliver high accuracy and reliability. Isolation assures high system performance and electrical security.

Features

8 Analog Inputs:	• user selectable range:
	  o -10 to 10 V
	  o 0 to 20 ma
	• Resolution: 24Bit
	• Accuracy:
	  o voltage input ±0.01%
	  o current input ±0.1%
	• Input impedance:
	  o voltage input 100kΩ min
	  o current input 250Ω ±0.1%

4 Analog Outputs:	• user selectable range
	  o -10 to 10 V
	  o 0 to 20 ma
	• Resolution: 12Bit
	• Accuracy: 0.2% typical
	• No missing code 12
	• Output current: 5mA nominal, 15mA short circuit
	• Output resistance: 0.2Ω max

4 Digital Inputs	• 6 to +24V opto-isolated • Input current: 10µA
2 Digital Outputs	• 6 to +24V opto-isolated • Output current: 100mA
Communication:	EtherNet 10BaseT with user-configurable IP address.
Protocol:	TCP using two channels: Control and Event. Other protocols can be implemented.
Power requirements:	24V DC (4W)
Environment:	• operating temperature: 0 to 40°C • storage temperature: -10 to 50°C • rel. humidity: 10 to 60%
Dimensions:	105Wx86Hx58Dmm (4.1"Wx3.4"Hx2.3"D)
Approvals:	EN 61131-2:2007, CE
Warranty:	3 years parts and labour