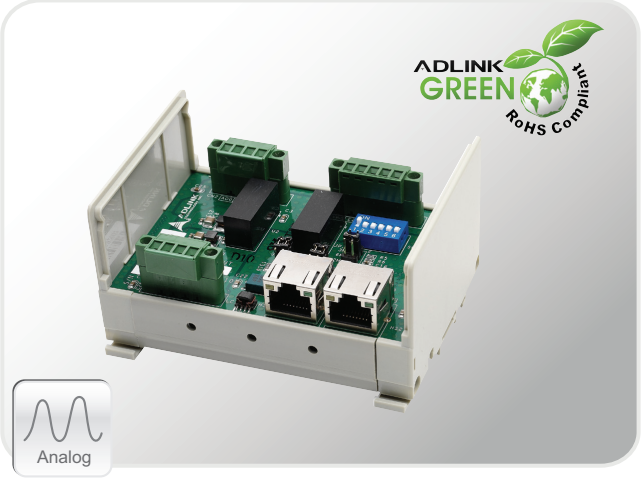
HSL-AO4-U

4-CH Analog Output Module



Introduction

The HSL-AO4 offers four analog output channels with a high drive capacity based on the HSL bus. The HSL-AO4 also features 16-bit resolution and offset/gain calibration to minimize the power-on 0-voltage drift to meet precise analog output requirements.

Features

- *4-CH analog output*
- *Output voltage range selection ±12V*
- *16-bit resolution*
- *Isolation voltage: 1000 Vrms*
- *Easy programming by software*
- *Easy installation and wiring*
- *EEPROM for gain offset storage*
- *Digital gain offset tunning*
- *Output signal latch protection to avoid the risk of abnormal disconnection.*

Specifications

System

Slave ID Consumption	2
Transmission Mode	Full/Half duplex
Transmission Speed	3/6/12 Mbps selectable
Analog Output Channel	4
D/A Resolution	16-bit
D/A Settling Time	10μs max.
LED Indicator	Power and Link
Power Requirement	+24VDC (±10%)
Output Range	±12 V
Driving Capacity	±20 mA
Offset Error	±1.5 mV max.
Gain Error	±0.1 % of max. output
DAC Max. Update Rate	300 kS/s
Operating Temperature	0 to 60˚C
Storage Temperature	-20 to 80˚C
Power Consumption	4 W
Setting Time (-12V to +12V step)	10 μs max.

Software Support

Windows® Platform

Available for Windows XP/2K

HSL LinkMaster Utility

LinkMaster offers a user-friendly interface to assist developers in testing and debugging all the slave modules connected to a master card. Both digital and analog I/O modules in addition to motion controllers can be easily tested by this utility to help reduce development time of distributed solution systems.

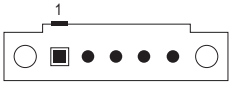
Pin Definitions

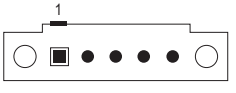
CN1

Pin #	Signal Name	Description
1	E24V	External Power, +24VDC +/-10%
2		
3	EGND	External Ground
4		
5	FG	Field Ground

CN2, CN3

Pin #	Signal Name	Description
1	AO0 / AO2	Analog Output Channel 0 / 2
2	AG	Analog Ground
3	AO1 / AO3	Analog Output Channel 1 / 3
4	AG	Analog Ground

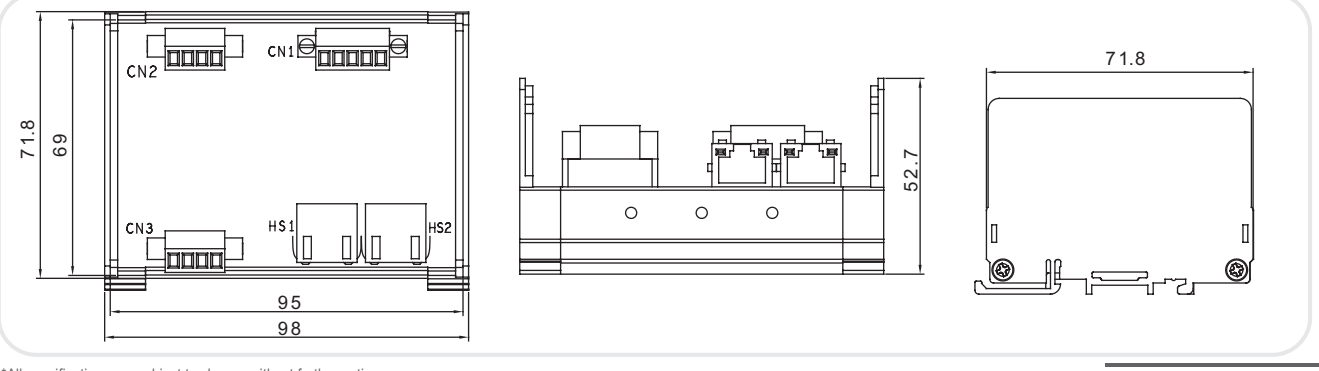




Ordering Information

HSL-AO4-U	4-CH analog output module
PCI-7853	Single HSL master controller card with two separate connectors
PCI-7854	Dual HSL master controller interface card with four separate connectors

Dimensions



*All specifications are subject to change without further notice.