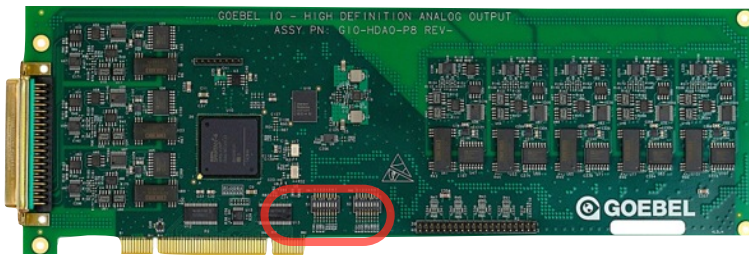# GOEBEL   GIO-HDAO-P8   Quick Start Guide

Goebel HDAO cards are full length PCI cards uniquely identified by a DIP switch setting. Cards can be numbered 0-15 based on the switch setting. The default factory delivered setup is to have the card numbered as 1. The switch need not be changed unless multiple cards are present or a different number is required. Card connector is DSUB 37 male.

Changing Card Numbering

1. Please follow the safety standards for ESD protection. Handling of cards should be done in an ESD approved work area.
2. Locate the Dip switch S1 on the board, highlighted in picture below. The switch has 8 toggle positions labeled on the PCB as 0 or 1. The switch itself is labeled on for the 0 position. Select the switch setting corresponding to card identification required.
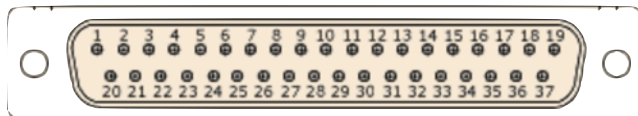
SW 1 card numbering

Switch S1	Bit 0	Bit 1	Bit 2	Bit 3
Card 0	0	0	0	0
Card 1	1	0	0	0
Card 2	0	1	0	0
Card 3	1	1	0	0
Card 4	0	0	1	0
Card 5	1	0	1	0
Card 6	0	1	1	0
Card 7	1	1	1	0
Card 8	0	0	0	1

Front Bezel Connector

Channels are brought out to the front bezel connector which is a DSUB 37 male.
Channel pins are defined in the table to the right. Pins not listed are connected to chassis ground, except for 17, 19, 36 which are no connect.
Recommended wiring for thermocouple is twisted shielded pair, with shield connected to chassis ground pins.

DSUB 37 pins

Channel	Analog out pin	Channel return pin
1	1	20
2	3	22
3	5	24
4	7	26
5	9	28
6	11	30
7	13	32
8	15	34