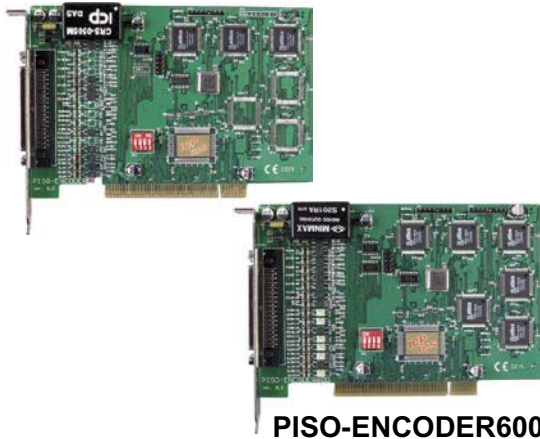


PISO-ENCODER300/600

PCI bus 3/6-axis encoder input board

PISO-ENCODER300



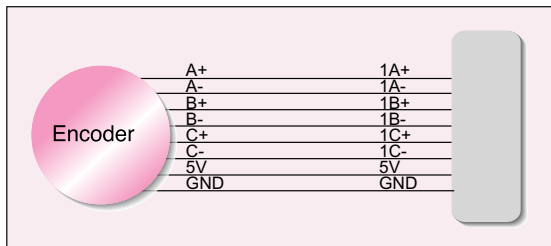
Features

- 32-bit +5V PCI bus, Plug & Play
- 3/6-axis encoder counter
- True 32-bit counter
- Maximum counting rate: 1MHz
- Third-order internal digital filter
- Counting mode: Quadrant, CW_CCW and PULSE_DIR
- A+, A-, B+, B-, C+, C- inputs
- Programmable register reset counter function
- Index (C channel) reset counter function
- Hardware reset (HR1~HR6) counter function
- 8 digital outputs
- 2500V optical isolation

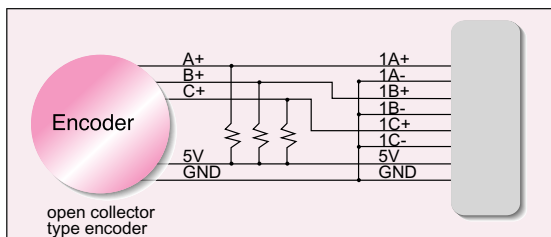
Functional Description

The PISO-ENCODER300/600 has a 3/6-axis encoder input counter and each axis has a 32-bit true counter with maximum counting rate of 1MHz. The counting mode has 3 types of selections: QUADRANT mode, CW_CCW mode, PULSE_DIR mode. The PISO-ENCODER600 provides 3 kinds of counter reset mode: 1.register reset, 2.index reset, 3. hardware reset. In index reset mode, the Encoder counter will be reset by C+/C-channel input. In hardware reset mode, the Encoder counter will be reset by an external pin (HR1~HR6). The HR1~HR6 also can be used as a digital inputs. The PISO-ENCODER300 and PISO-ENCODER600 also provides 8-channel digital outputs.

Connection between Encoder and ICPDAS Motion Control Card



Connection between Open-Connector Encoder and ICPDAS Motion Control Card



General Specifications

- I/O connector: one 68-pin SCSI-II female
- Power requirements: +5V @ 500 mA typical
- Operating temperature: 0 ~ 60°C
- Operating humidity: 0 ~ 90% non-condensing
- Storage temperature: -20 ~ 70°C
- Dimensions: 157 mm x 106 mm

Pin Assignment

EVCC	1	○	○	35	EGND
1A+	2	○	○	36	4A+
1A-	3	○	○	37	4A-
1B+	4	○	○	38	4B+
1B-	5	○	○	39	4B-
1C+	6	○	○	40	4C+
1C-	7	○	○	41	4C-
EVCC	8	○	○	42	EGND
2A+	9	○	○	43	5A+
2A-	10	○	○	44	5A-
2B+	11	○	○	45	5B+
2B-	12	○	○	46	5B-
2C+	13	○	○	47	5C+
2C-	14	○	○	48	5C-
EVCC	15	○	○	49	EGND
3A+	16	○	○	50	6A+
3A-	17	○	○	51	6A-
3B+	18	○	○	52	6B+
3B-	19	○	○	53	6B-
3C+	20	○	○	54	6C+
3C-	21	○	○	55	6C-
EXT_VCC	22	○	○	56	EXT_VCC
HR1	23	○	○	57	DO 1
HR2	24	○	○	58	DO 2
HR3	25	○	○	59	DO 3
HR4	26	○	○	60	DO 4
HR5	27	○	○	61	DO 5
HR6	28	○	○	62	DO 6
NC	29	○	○	63	DO 7
NC	30	○	○	64	DO 1
NC	31	○	○	65	NC
NC	32	○	○	66	NC
NC	33	○	○	67	NC
EXT_GND	34	○	○	68	EXT_GND

Ordering Information

- Standard**
- PISO-ENCODER300:** PCI 3-axis encoder input board
 - PISO-ENCODER600:** PCI 6-axis encoder input board
- Optional**
- DN-68:** DIN-rail mounting screw terminal board
 - CA-SCSI15:** SCSI II 68-pin & 68-pin female cable