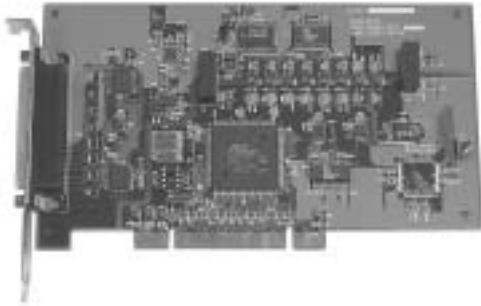


DASP-52180

12-bit 8 Isolated Analog Input w/Free-running Card



INTRODUCTION

The DASP-52180 is a PCI-bus, 8 12-bit isolated analog input card. It provides many powerful features such as free-running mechanism, on-board watchdog timer, and isolation protection of 2500V_{DC}. The card is suitable for laboratories, production line test automation, and measurement control.

Advanced S/W Mechanism: Free-running

Free-running is a brand new data-retrieving mechanism to mainly save software SW RD 30% ~ 50% of the time and effort in developing application programs. It helps software RD by using several rows of simple programs to read data, instead of countless numbers in the past.

On-board Watchdog Timer

Users can set up time intervals for the timer. While the application programs within the time interval have not connected with DASP/DASA products, the DASP/DASA will be sending out a preset safety value to a devices linked to the DASP/DASA. This helps maintain a stable system.

APPLICATIONS

- Process controls
- Measurement controls
- Data acquisition system
- Process status monitoring
- Laboratory automation
- Production line test equipment

SPECIFICATIONS

Analog Input (A/D)

- **Channels:** 8
- **Resolution:** 12-bit
- **Input type:** differential Input
- **Max. sampling rate:** 8K S/s(total channel)
- **Cycle time:** 1ms (free-running)
- **Optical isolated:** 2500V_{DC}
- **Input impedance:** 10M Ω
- **Maximum input over voltage:** +/- 10V
- **Accuracy of FSR:** +/- 1 LSB
- **Input range:**

Voltage	$\pm 10V, \pm 5V, 0-10V, 0-5V,$
Current	0-20mA

- **Zero calibration:** EEPROM on board

FEATURES

- ▶ 12-bit 8 analog differential inputs.
- ▶ Analog input type: voltage and current
- ▶ Free running A/D sampling (auto-run and auto-update)
- ▶ On-board watchdog timer supported
- ▶ A/D Software programmable zero calibration
- ▶ Windows® 98/NT/2000/XP and Labview 6.0/7.0 driver supported
- ▶ Complete sample program- VB, VC, BCB, Delphi

General Environment

- **I/O connector:** 37-pin D-sub female
- **Power consumption:** +5V @ 900mA (max.)
- **Operating temperature:** 0 ~ 60°C
- **Storage temperature:** -20 ~ +70°C
- **Humidity:** 0 ~ 90% non-condensing
- **Dimensions:** 185mm x 122 mm

ORDERING INFORMATION

DASP-52180

12-bit 8 isolated analog input w/free-running card

Terminal Board

• TB-88037

37-pin D-sub female wiring terminal board with DIN-rail mounting

Cable

• CB-89037-2

37-pin D-sub male to male 2M cable

• CB-89037-5

37-pin D-sub male to male 5M cable

PIN ASSIGNMENT

Analog Input 0+	1	●	20	Analog Input 0-
Analog Input 1+	2	●	21	Analog Input 1-
Analog Input 2+	3	●	22	Analog Input 2-
Analog Input 3+	4	●	23	Analog Input 3-
Analog Input 4+	5	●	24	Analog Input 4-
Analog Input 5+	6	●	25	Analog Input 5-
Analog Input 6+	7	●	26	Analog Input 6-
Analog Input 7+	8	●	27	Analog Input 7-
AGND	9	●	28	AGND
FGND	10	●	29	FGND
NC	11	●	30	NC
NC	12	●	31	NC
NC	13	●	32	NC
NC	14	●	33	NC
FGND	15	●	34	NC
NC	16	●	35	NC
NC	17	●	36	NC
NC	18	●	37	NC