AXIOM

AX5426P

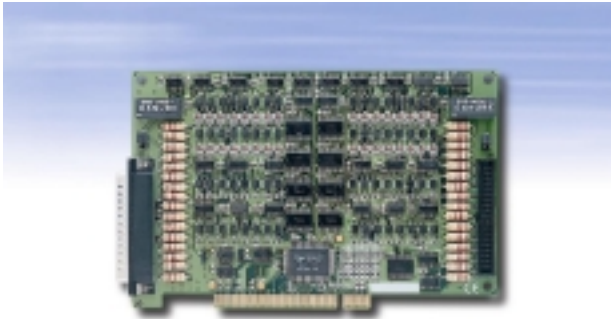## 32 Channels Iso-DI and 32 Channels Iso-DO Board

Features

- PCI bus compatible, opto-isolated digital inputs and open collector outputs card
- 64 isolated digital(32 inputs and 32 outputs)
- up to 24V outputs and 300ma max. Current sinks
- interrupt source selection (DI_0, DI_16)
- Connects to a screw terminal panel available for DIO

General Description

The AX5426P offers 32 isolated digital inputs and 32 isolated open collector outputs. This board is designed to plug into any IBM PC/AT or compatible computers. The AX5426P is easily programmed using any language.

For AX5426P, all digital output channels are open-collector outputs. Each input is capable of high-power current sinks up to 500mA for actuating external devices such as high voltage/high current relays, switches, alarms, buzzers and LED's.

Additional feature for ax5426P digital outputs, the external power supply can be used in the range of 5 to 24VDC.

For AX5426P digital inputs, internal or external power can be selected by jumper setting.

Specification

Isolated DI

- Number of Channels: 32
- Opto-isolator: PC357
- Isolation: 3750vrms Channel to Channel & Channel-to-Ground.
- Input Range: 5 to 24VDC
- Input Impedance: 1.2KΩ /1W
- Response Time: 1KHz max

Isolated DO

- Number of Relays: 32
- Opto-isolator: PC357
- Output Voltage: 5 to +24VDC / 100mA
- Isolation: 3750Vrms Channel to Channel Channel-to-Ground.

Interface Characteristic

- PCI bus
- I/O connector: 40 pin male ribbon connector 37-pin D-type connector

Power Requirement

- +5V: 550mA max
- DC to DC converter: Built-in

Physical/Environment

- Dimension 185mm*115mm
- Operating Temperature 0°C to 60°C
- Storage Temperature -25°C to 70°C
- Relative Humidity 0 to 80%, non-condensing

Ordering Information

AX5426P

32 channels Iso-DI and 32 Channels DO Board including user's manual, and utility CD-ROM with Basic, C and Pascal drivers for DOS, Windows 95/98/NT drivers, and Linux driver.

Terminal Boards

- AX851: Universal Screw Terminal Panel

Drivers for 3rd party S/W packages

- AS59061 Labtech Control and Notebook driver
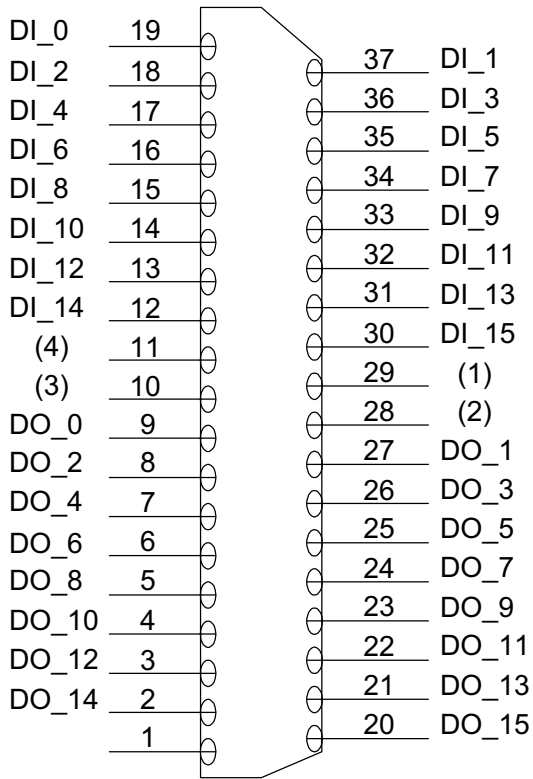- AS59011 Labview driver
- AS59130 Dasylab driver

Pin Assignment

Left connector:

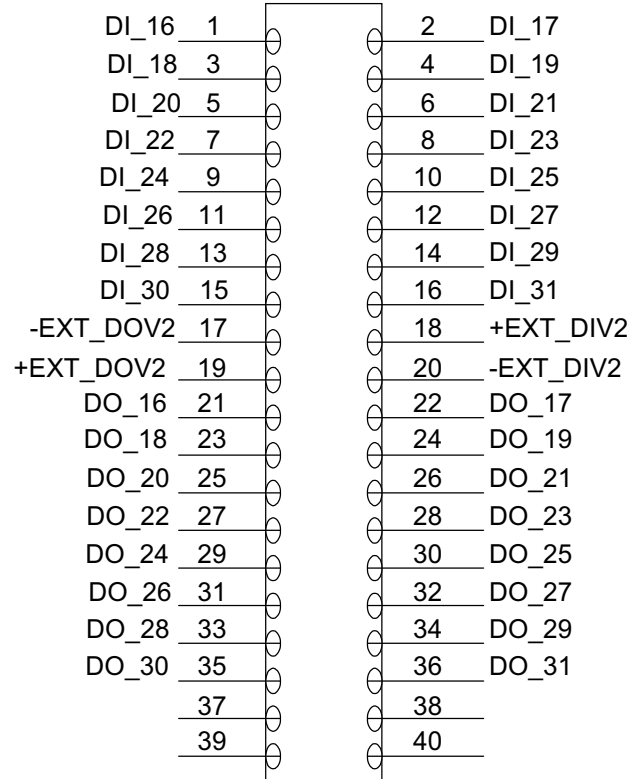| Left	Pin		Pin	Right
DI_0	19			
DI_2	18		37	DI_1
DI_4	17		36	DI_3
DI_6	16		35	DI_5
DI_8	15		34	DI_7
DI_10	14		33	DI_9
DI_12	13		32	DI_11
DI_14	12		31	DI_13
(4)	11		30	DI_15
(3)	10		29	(1)
DO_0	9		28	(2)
DO_2	8		27	DO_1
DO_4	7		26	DO_3
DO_6	6		25	DO_5
DO_8	5		24	DO_7
DO_10	4		23	DO_9
DO_12	3		22	DO_11
DO_14	2		21	DO_13
	1		20	DO_15

NOTE:

(1) DO_0 ~DO_15 external voltage(+)

(2) DO_0~DO_15 external voltage(-)

(3) DI_0~DI_15   external voltage(+)

(4) DI_0~DI_15   external voltage(-)

Right connector:

Left	Pin		Pin	Right
DI_16	1		2	DI_17
DI_18	3		4	DI_19
DI_20	5		6	DI_21
DI_22	7		8	DI_23
DI_24	9		10	DI_25
DI_26	11		12	DI_27
DI_28	13		14	DI_29
DI_30	15		16	DI_31
-EXT_DOV2	17		18	+EXT_DIV2
+EXT_DOV2	19		20	-EXT_DIV2
DO_16	21		22	DO_17
DO_18	23		24	DO_19
DO_20	25		26	DO_21
DO_22	27		28	DO_23
DO_24	29		30	DO_25
DO_26	31		32	DO_27
DO_28	33		34	DO_29
DO_30	35		36	DO_31
	37		38	
	39		40	

NOTE:

(1) DO_16 ~DO_31 (+EXT_DOV2 external power +)

(2) DO_16~DO_31(-EXT_DOV2 external power -)

(3) DI_16~DI_31(+EXT_DIV2 external voltage(+)

(4) DI_16~DI_31(-EXT_DIV2 external voltage(-)