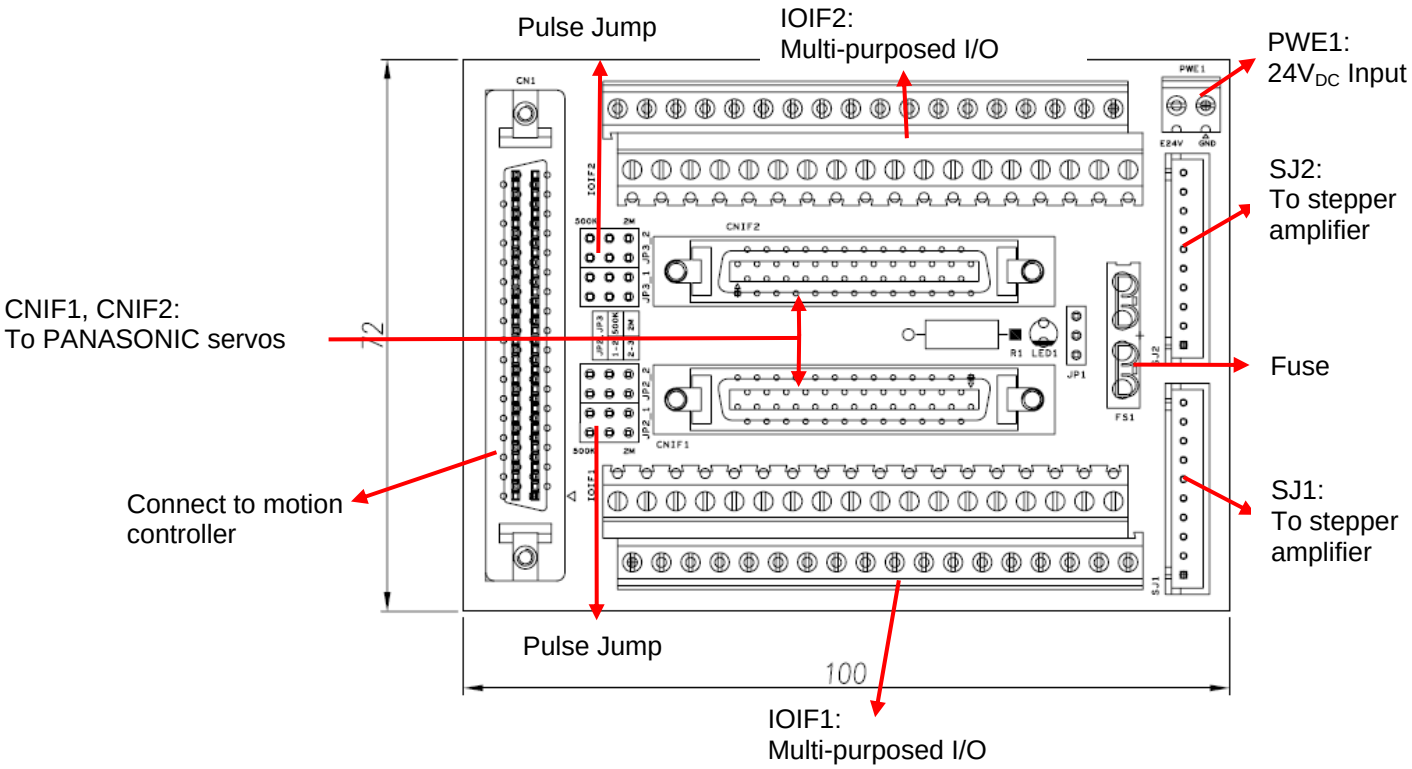
DIN-68P-A4 User Guide

Notice

The DIN-68P-A4 is used for wiring between **PANASONIC** series servo drivers / stepper with pulse trains input driver and **ADLINK** c**PCI-8168, PCI-8102** motion controller card ONLY. Never use this terminal board with any other servo driver or cards.

P/N: 50-xxxxx-xxx



Note:

1. **Servo & Stepper:** The DIN-68P-A4 provides 2 connection methods for each axis: CNIF1 & CNIF2 connectors for PANASONIC series servo drivers, and a SJ connector for stepping drivers. DO NOT use both connectors at the same time.
2. **CNIF1 or CNIF2 cables:** One pin-to-pin 50-PIN cables are required for connection between the CNIF1(CNIF2) and the PANASONIC driver. It is available from ADLINK, or users may contact the local dealer or distributor to get cable information.
3. **JP1:** Fuse selection. Pin 1-2 short means the board is protected by fuse. Pin 2-3 short means the board is not protected by fuse.
4. **Fuse:** The fuse protects from damaging internal circuit. This guess can sustain 2A current. Users can buy it in local area when the fuse is burnt out.
5. **JP2 and JP3:** Pulse speed selection. Pin 1-2 short means the board link PANASONIC series servo drivers 500Kpps pin. Pin 2-3 short means the board link PANASONIC series servo drivers 2Mpps pin.

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● PIN Assignments:

1. CNIF1/CNIF2 (PANASONIC AC Servo Driver)

No.	Name	I/O	Function	No.	Name	I/O	Function
1	OPC1	I	Operation Pulse Signal (-)	2	OPC2	I	Operation Pulse Signal (+)
3	OUT-_500K	O	500K Pulse Signal (-)	4	OUT+_500K	O	500K Pulse Signal (+)
5	DIR-_500K	O	500K Direction Signal (-)	6	DIR+_500K	O	500K Direction Signal (+)
7	I24V	I	+24V Voltage Input	8	IGND	--	Isolated Ground
9	IGND	--	Isolated Ground	10	BRK-OFF-	O	Electromagnetic Brake (-)
11	BRK-OFF+	O	Electromagnetic Brake (+)	12	ZSP	O	Zero Speed Signal
13	IGND	--	Isolated Ground	14	SPR	I	Speed Command
15	IGND	--	Isolated Ground	16	CCWTL	I	CCW Torque Limit
17	IGND	--	Isolated Ground	18	CWTL	I	CW Torque Limit
19	CZ	O	Z-phase Output	20	X		
21	EA+	I	Encoder A-phase (+)	22	EA-	I	Encoder A-phase (-)
23	EZ+	I	Encoder Z-phase (+)	24	EZ-	I	Encoder Z-phase (-)
25	IGND	--	Isolated Ground	26	VS-SEL	I	VS Select
27	TL-SEL	I	Torque Limit Select	28	DIV	I	Electronic Gear Select
29	SVON	I	Servo ON	30	ERC	I	Dev. ctr, clr. Signal
31	RES	I	Reset Signal	32	C-Mode	I	Control Mode Select
33	IGND	--	Isolated Ground	34	IGND	--	Isolated Ground
35	RDY	O	Servo Ready Signal	36	IGND	--	Isolated Ground
37	ALM	O	Alarm Signal	38	IGND	--	Isolated Ground
39	INP	O	In-position Signal	40	TLC	O	Torque Limit Command
41	IGND	--	Isolated Ground	42	IM	O	Torque Limit Monitor
43	SP	O	Speed Monitor	44	OUT-_2M	O	2M Pulse Signal (-)
45	OUT+_2M	O	2M Pulse Signal (+)	46	DIR-_2M	O	2M Direction Signal (-)
47	DIR+_2M	O	2M Direction Signal (+)	48	EB+	I	Encoder B-phase (+)
49	EB-	I	Encoder B-phase (-)	50	IGND	--	Isolated Ground

2. IOIF1/IOIF2 (External Motion Input Signal Interface)

IOIF1

No.	Name	I/O	Function	No.	Name	I/O	Function
1	PEL	I	Positive Limit (+)	19	OPC1	I	Operation Pulse Signal (-)
2	MEL	I	Positive Limit (-)	20	OPC2	I	Operation Pulse Signal (+)
3	ORG	I	Origin Signal	21	BRK-OFF+	O	Electromagnetic Brake (+)
*4	By Card	--	Card_Pin60	22	BRK-OFF-	O	Electromagnetic Brake (-)
*5	By Card	--	Card_Pin23	23	ZSP	O	Zero Speed Signal
*6	By Card	--	Card_Pin26	24	SPR	I	Speed Command
*7	By Card	--	Card_Pin27	25	CCWTL	I	CCW Torque Limit
*8	By Card	--	Card_Pin30	26	CWTL	I	CW Torque Limit
*9	By Card	--	Card_Pin61	27	CZ	O	Z-phase Output
*10	By Card	--	Card_Pin62	28	VS-SEL	I	VS Select
*11	By Card	--	Card_Pin65	29	TL-SEL	I	Torque Limit Select
12	SP	O	Speed Monitor	30	DIV	I	Electronic Gear Select
13	IM	O	Torque Limit Monitor	31	RES	I	Reset Signal
14	TLC	O	Torque Limit Command	32	C-Mode	I	Control Mode Select
15	+5V	O	Isolated +5V Output	33	IGND	--	Isolated Ground
16	I24V	O	Voltage output (With Fuse)	34	IGND	--	Isolated Ground
17	I24V	O	Voltage output (With Fuse)	35	IGND	--	Isolated Ground
18	E24V	O	Voltage output (Without Fuse)	36	IGND	--	Isolated Ground

IOIF2

No.	Name	I/O	Function	No.	Name	I/O	Function
1	PEL	I	Positive Limit (+)	19	OPC1	I	Operation Pulse Signal (-)
2	MEL	I	Positive Limit (-)	20	OPC2	I	Operation Pulse Signal (+)
3	ORG	I	Origin Signal	21	BRK-OFF+	O	Electromagnetic Brake (+)
*4	By Card	--	Card_Pin60	22	BRK-OFF-	O	Electromagnetic Brake (-)
*5	By Card	--	Card_Pin57	23	ZSP	O	Zero Speed Signal
*6	By Card	--	Card_Pin28	24	SPR	I	Speed Command
*7	By Card	--	Card_Pin29	25	CCWTL	I	CCW Torque Limit
*8	By Card	--	Card_Pin31	26	CWTL	I	CW Torque Limit
*9	By Card	--	Card_Pin63	27	CZ	O	Z-phase Output
*10	By Card	--	Card_Pin64	28	VS-SEL	I	VS Select
*11	By Card	--	Card_Pin66	29	TL-SEL	I	Torque Limit Select
12	SP	O	Speed Monitor	30	DIV	I	Electronic Gear Select
13	IM	O	Torque Limit Monitor	31	RES	I	Reset Signal
14	TLC	O	Torque Limit Command	32	C-Mode	I	Control Mode Select
15	+5V	O	Isolated +5V Output	33	IGND	--	Isolated Ground
16	I24V	O	Voltage output (With Fuse)	34	IGND	--	Isolated Ground
17	I24V	O	Voltage output (With Fuse)	35	IGND	--	Isolated Ground
18	E24V	O	Voltage output (Without Fuse)	36	IGND	--	Isolated Ground

Note：* Show Multi-functional: Different cards have different functions.
Please refer card's manual before use.

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3. SJ1/SJ2 (Stepping Motor Control Interface)

SJ1~SJ2

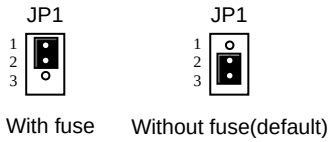
No.	Name	I/O	Function	No.	Name	I/O	Function
1	OUT+	O	Pulse Signal (+)	6	ALM	I	Servo Alarm
2	OUT-	O	Pulse Signal (-)	7	+5V	O	Voltage output
3	DIR+	O	Direction Signal (+)	8	SVON	O	Servo ON
4	DIR-	O	Direction Signal (-)	9	+5V	O	Voltage output
5	EZ+	I	Index Signal	10	IGND	--	Isolated Ground

4. PWE1 (External +24VDC Input Connector)

PWE1

No.	Name	I/O	Function
1	EX GND	--	External Power Supply Ground
2	EX +24V	I	External Power Supply Input (+24V DC+5%)

5. JP1 (Setting for fuse)



With fuse Without fuse(default)

Jumper

JP1	1-2：With Fuse	2-3：Without Fuse

Jumper	JP2, JP3
1-2	500Kpps
2-3	2Mpps

6. Mechanical Dimensions:

