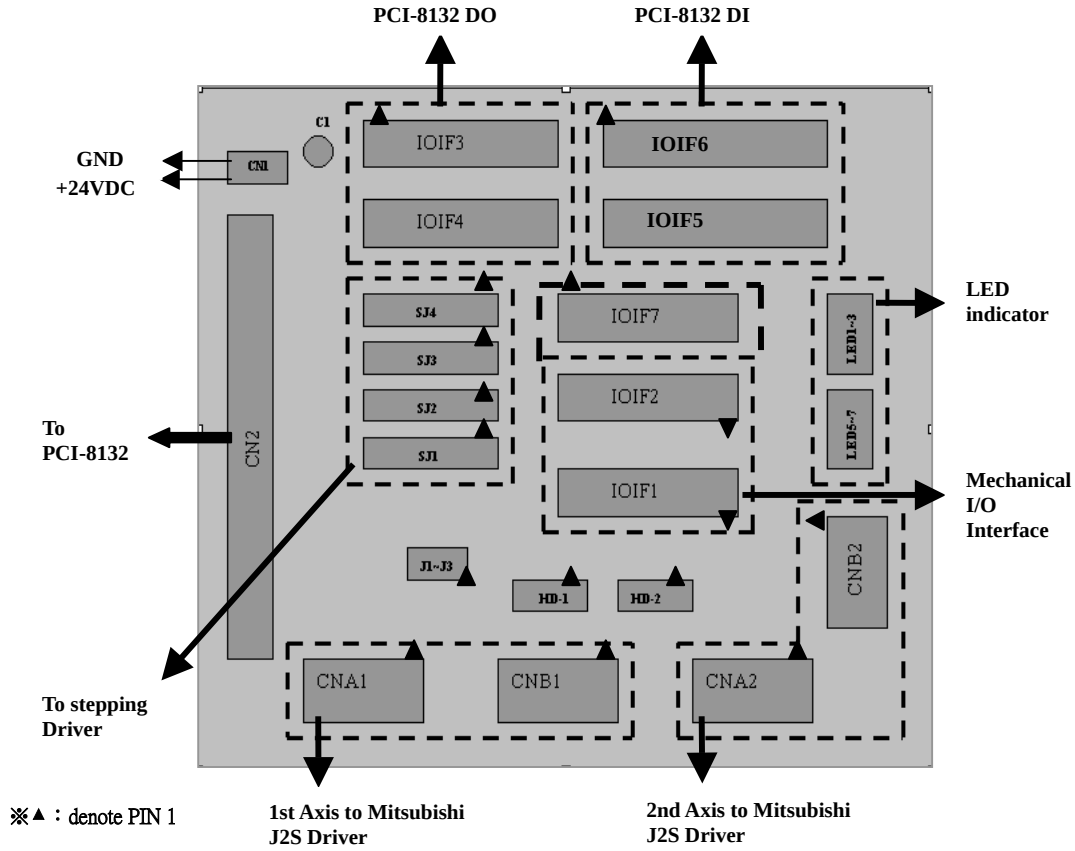
DIN-812M Installation Guide

Warning

The DIN-812M is used for wiring of ADLINK PCI-8132 motion controller card ONLY. Never try it on any other cards.



Spec/Name	CN2	CNA、CNB	SJ1~SJ4	HD1、HD2
Connector Spec	SCSI-100	3M-20 10120-3000VE	10 PIN Header	6PIN Header

Note:

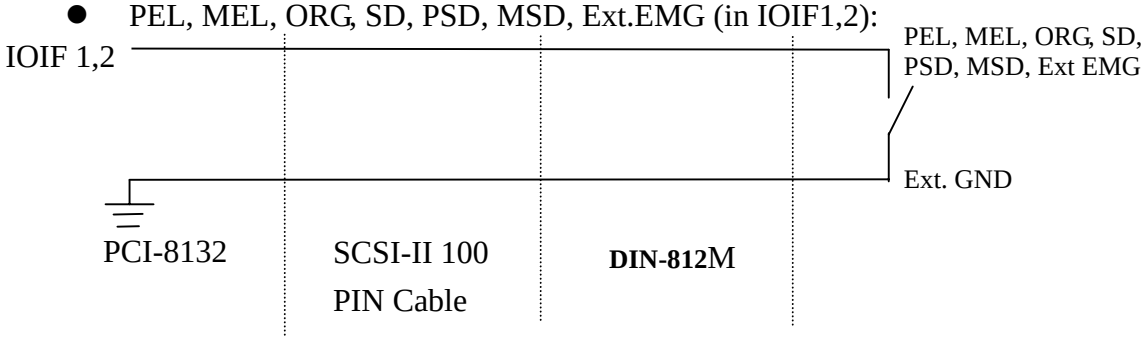
1. The DIN-812M provides 2 connection ways for every axis. The first is through CNA & CNB connector. This is for Mitsubishi J2S series servo driver. The second is through SJ connector. This is for stepping driver or other servo driver. Keep in mind that the signals in SJ and CNA & CNB of the same axis are directly shorted, so DO NOT use both connectors at the same time.
2. Two one-to-one 20-PIN cable is required for connection between CNA & CNB and Mitsubishi J2S driver. It is available from ADLINK, and, user may contact local dealer or distributor of ADLINK to get cable information.
3. **Ext EMG and EMG**: Due to the existence of EMG (Emergence stop signal) in Mitsubishi J2S driver, user may select either of the following two operations by setting Jumper (J1~J2, J1 for 1st axis, J2 for 2nd axis,J3 for DI). 【next page】

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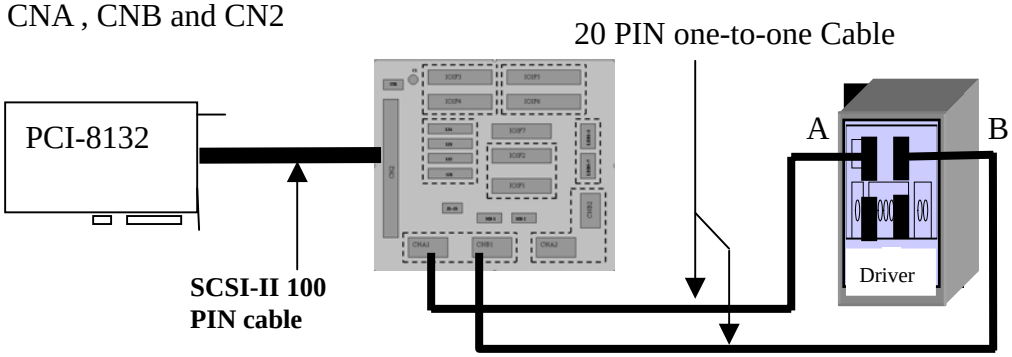
J1~J2 Jumper setting:
1-2 short: The EMG is short to GND, so Ext. EMG in IOIF pin 2 is useless.
2-3 short: The Ext. EMG in IOIF pin 2 is connected to EMG at driver, so, user may manually stop motor by setting Ext. EMG to GND.
J3 Jumper setting
1-2 short: The DI_COM is short to GND.
2-3 short: The DI_COM is short to +24V.

◆How to wire

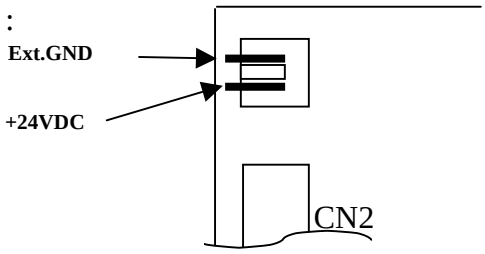
- PEL, MEL, ORG, SD, PSD, MSD, Ext.EMG (in IOIF1,2):



- CMP (in IOIF 7)
  CMP is a TTL output (vs. Ext GND)
- CNA , CNB and CN2



- SJ: Please refer to PCI-8132 user manual only for non- Mitsubishi driver wiring .
- CN1 :



◆Getting Service from ADLINK

Customer Satisfaction is always the most important thing for ADLINK Tech Inc. If you need any help or service, please contact us and get it.

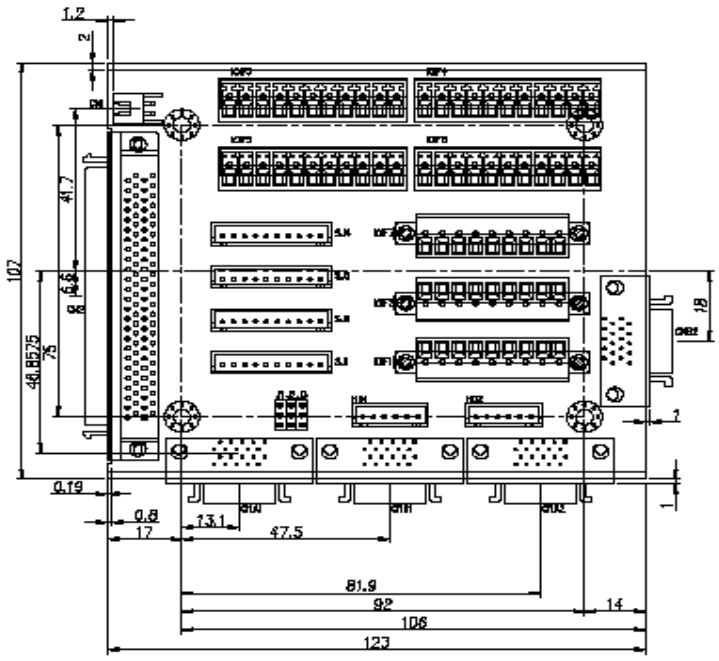
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◆Fast Wiring Reference Table：

	Item	No External Encoder			Has External Encoder		
		For Mitsubishi J2S driver	For Non Mitsubishi J2S driver	Stepping Motor	For Mitsubishi J2S driver	For Non Mitsubishi J2S driver	Stepping Motor
J2S Interface	CNA1~2	O	X	X	X	X	X
	CNB1~2	O	X	X	X	X	X
Servo I/O	SJ1~2	X	O	O	X	O	O
Encoder I/O	SJ3~4	X	O	X	X	O	O
Mechanical I/O	IOIF1~2	O	O	O	O	O	O
General DO	IOIF3~4	O	O	O	O	O	O
General DI	IOIF5~6	O	O	O	O	O	O
Trigger & Pulse	IOIF7	O	O	O	O	O	O
Note：O : Need wiring ,X : don't care .							

◆Mechanical Dimensions:



※ Unit：mm

◆PIN Assignment:

CNA1~CNA2

No.	Name	I/O	Function	No.	Name	I/O	Function
1	IGND	--	Isolated Ground	2	DIR+	O	Direction Signal (+)
3	OUT+	O	Pulse Signal (+)	4			
5	EZ+	I	Encoder Z-phase (+)	6	EA+	I	Encoder A-phase (+)
7	EB+	I	Encoder B-phase (+)	8	ERC	O	Error counter Clear
9	+24V	O	Voltage output	10	IGND	--	Isolated Ground
11				12	DIR-	O	Direction Signal (-)
13	OUT-	O	Pulse Signal (-)	14			
15	EZ-	I	Encoder Z-phase (-)	16	EA-	I	Encoder A-phase (-)
17	EB-	I	Encoder B-phase (-)	18	INP	I	Servo In Position
19	RDY	I	Servo Ready	20	IGND	--	Isolated Ground

CNB1~CNB2

No.	Name	I/O	Function	No.	Name	I/O	Function
1	IGND	--	Isolated Ground	2			
3				4			
5	Servo ON	O	Servo On	6			
7				8			
9				10	IGND	--	Isolated Ground
11				12			
13	+24V	O	Voltage output	14			
15	EMG	I	Internal EMG Signal	16	IGND	--	Isolated Ground
17	IGND	--	Isolated Ground	18	ALM	I	Servo Alarm
19				20	IGND	--	Isolated Ground

IOIF1~IOIF2

No.	Name	I/O	Function	No.	Name	I/O	Function
1	+24V	O	Voltage output	6	MSD	I	Negative Slow Switch (+)
2	EX_EMG	I	External EMG Signal	7	ORG	I	ORG signal
3	PEL	I	Positive Limit (+)	8	IGND	--	
4	MEL	I	Negative Limit (-)	9	IGND	--	
5	PSD	I	Positive Slow Switch (+)				

IOIF3

No.	Name	I/O	Function	No.	Name	I/O	Function
1	IGND	--	Isolated Ground	7	DO3	O	Isolated digital output
2	IGND	--	Isolated Ground	8	DO2	O	Isolated digital output
3	DO7	O	Isolated digital output	9	DO1	O	Isolated digital output
4	DO6	O	Isolated digital output	10	DO0	O	Isolated digital output
5	DO5	O	Isolated digital output	11	DO COM	I	Ext power input for Dout
6	DO4	O	Isolated digital output	12			

IOIF4

No.	Name	I/O	Function	No.	Name	I/O	Function
1	IGND	--	Isolated Ground	7	DO11	O	Isolated digital output
2	IGND	--	Isolated Ground	8	DO10	O	Isolated digital output
3	DO15	O	Isolated digital output	9	DO9	O	Isolated digital output
4	DO14	O	Isolated digital output	10	DO8	O	Isolated digital output
5	DO13	O	Isolated digital output	11	DO COM	I	Ext power input for Dout
6	DO12	O	Isolated digital output	12			

IOIF5

No.	Name	I/O	Function	No.	Name	I/O	Function
1	DI COM	I	Ext power input for din	7	DI3	I	Isolated digital input
2	DI COM	I	Ext power input for din	8	DI2	I	Isolated digital input
3	DI7	I	Isolated digital input	9	DI1	I	Isolated digital input
4	DI6	I	Isolated digital input	10	DI0	I	Isolated digital input
5	DI5	I	Isolated digital input	11	DI COM	I	Ext power input for din
6	DI4	I	Isolated digital input	12			

IOIF6

No.	Name	I/O	Function	No.	Name	I/O	Function
1	DI COM	I	Ext power input for din	7	DI11	I	Isolated digital input
2	DI COM	I	Ext power input for din	8	DI10	I	Isolated digital input
3	DI15	I	Isolated digital input	9	DI9	I	Isolated digital input
4	DI14	I	Isolated digital input	10	DI8	I	Isolated digital input
5	DI13	I	Isolated digital input	11	DI COM	I	Ext power input for din
6	DI12	I	Isolated digital input	12			

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IOIF7

No.	Name	I/O	Function	No.	Name	I/O	Function
1	+5V	O	Voltage output	6	COMP1	O	Position compare Trigger 1
2	PA+	I	Manual Pulse input PHA+	7	COMP2	O	Position compare Trigger 2
3	PA-	I	Manual Pulse input PHA-	8	IGND	--	Isolated Ground
4	PB+	I	Manual Pulse input PHB+	9	IGND	--	Isolated Ground
5	PB-	I	Manual Pulse input PHB-	10			

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	Servo ON	O	Servo On
4	DIR-	O	Direction Signal (-)	9	+5V	O	Voltage output
5	EZ+	I	Index Singal	10	IGND	--	Isolated Ground

SJ3~SJ4

No.	Name	I/O	Function	No.	Name	I/O	Function
1	+5V	O	Pulse Signal (+)	6	EB-	I	Encoder B-phase (-)
2	+5V	O	Pulse Signal (-)	7	EZ+	I	Encoder Z-phase (+)
3	EA+	I	Encoder A-phase (+)	8	EZ-	I	Encoder Z-phase (-)
4	EA-	I	Encoder A-phase (-)	9	IGND	--	Isolated Ground
5	EB+	I	Encoder B-phase (+)	10	IGND	--	Isolated Ground

CN1

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

HD1~HD2

No.	Name	I/O	Function	No.	Name	I/O	Function
1	+24V	O	Voltage output	4	EX_EMG	I	External EMG Signal
2	Servo ON	O	Servo On	5	ALM	I	Servo Alarm
3	RDY	I	Servo Ready	6	IGND	--	Isolated Ground

Jumper

J1~J2		1: GND	2: EMG4	3: EX_EMG
J3		1.GND	2.DICOM	3.+24V