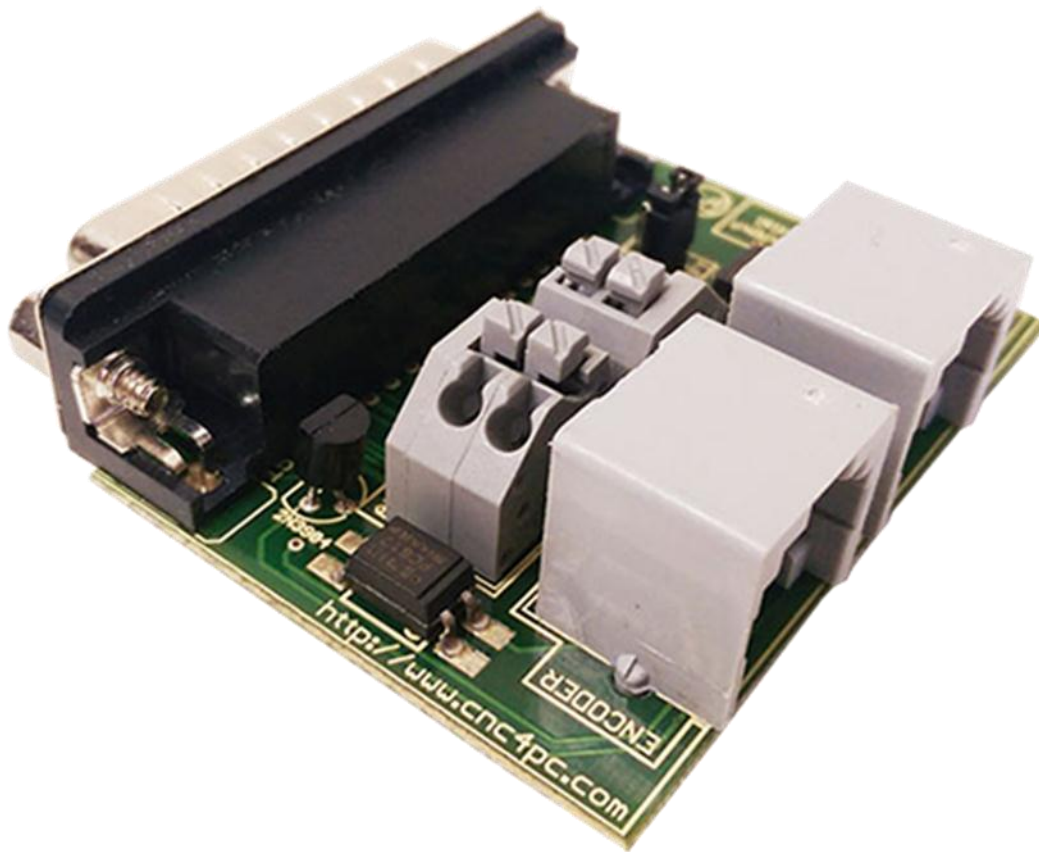




USER'S MANUAL VER.1

C34SVDB_100 BOARD Rev. 1



MARCH, 2017

USER'S MANUAL

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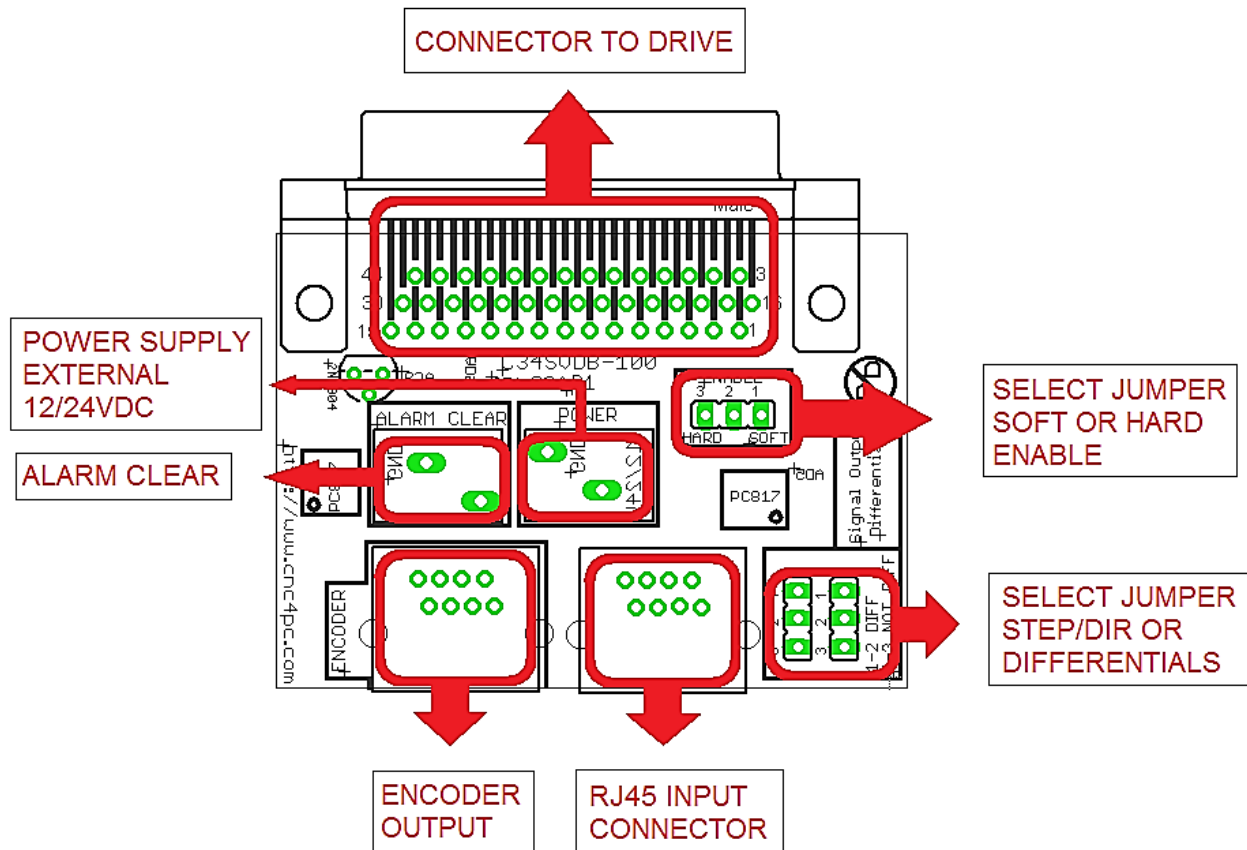
1.0 OVERVIEW

This interfaces board is used for the connection between C35S, C32S, C62 or C74 and the ***INVT SV-DB100 Series***

2.0 FEATURES

- CONN PLUG 44 POS connectors for Connection of Driver.
- RJ45 Connector for Axis.
- Select Jumper for Hard Enable or Soft Enable.
- Select Jumper for signals Differentials or Step & Direction
- Terminals for external power supply 12/24VDC
- Encoder output

3.0 BOARD DESCRIPTION



4.0 SPECIFICATIONS

4.1 Power Requirements

12/24VDC@500mA is required to power this board.



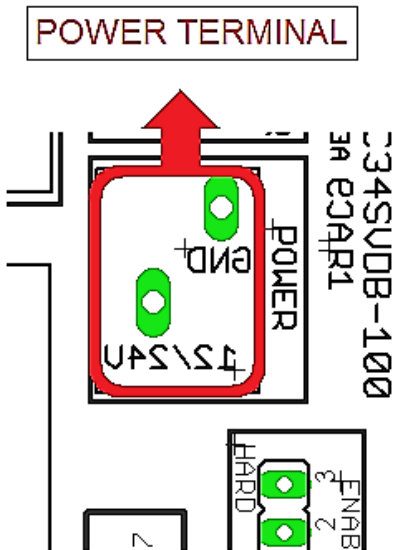
WARNING

Check the polarity and voltage of the external power source and connect the 24VDC and GND. Overvoltage or reverse-polarity power applied to these terminals can cause damage to the board, and/or the power source.

5.0 POWER TERMINALS AND CONFIGURATION JUMPERS

5.1 Power Terminal

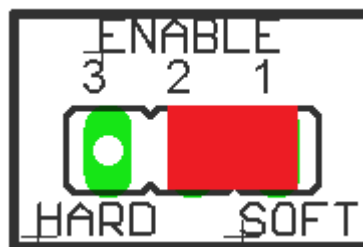
This input requires an external power 12VDC or 24VDC@500 mA.



6.0 JUMPER TO SELECT THE ENABLE

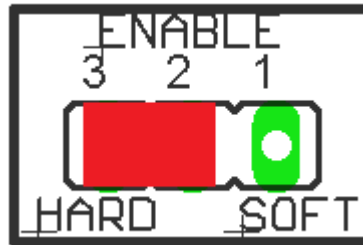
Use Software Enable to keep the driver active only while the system is active. Set jumper as shown in the image.

SOFT ENABLE



Use Hardware Enable to keep the driver enabled all the time.

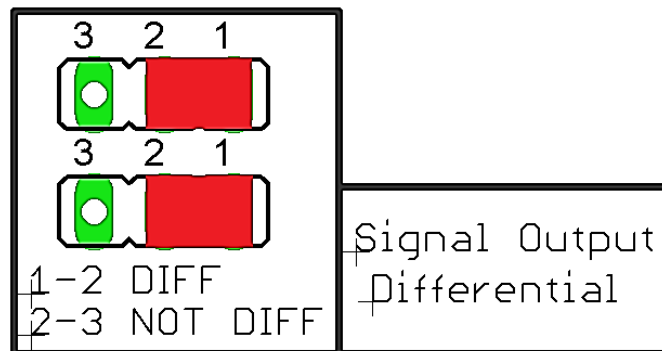
HARD ENABLE



7.0 JUMPER TO SELECT THE DIFFERENTIAL OUTPUT

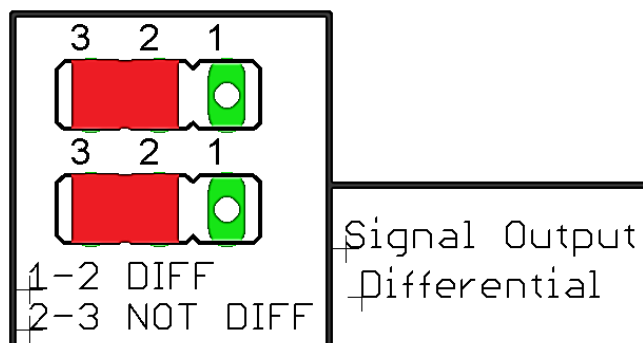
If working the outputs of STEP and DIR as differential signals, you have to use the board C74, set jumper as shown in the image.

DIFFERENTIAL



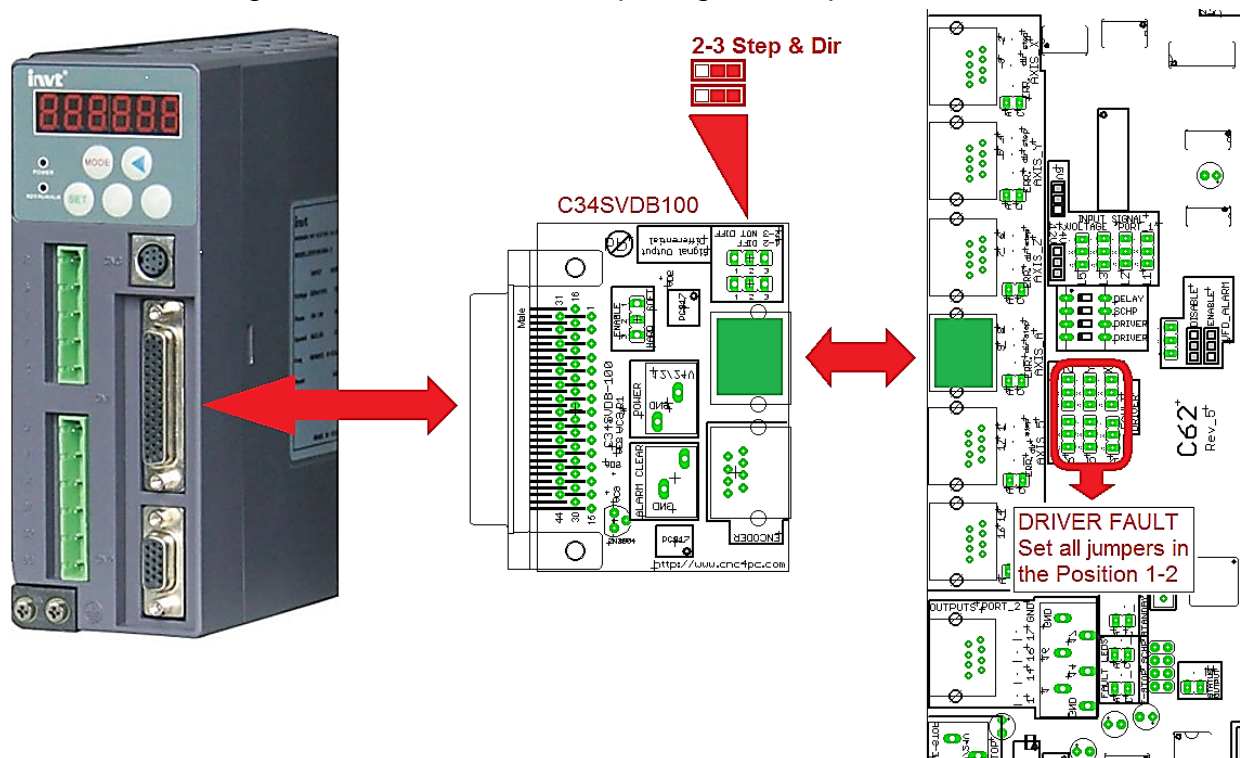
If differential signal for STEP & DIR is not used, set jumper as shown in the image

STEP & DIR



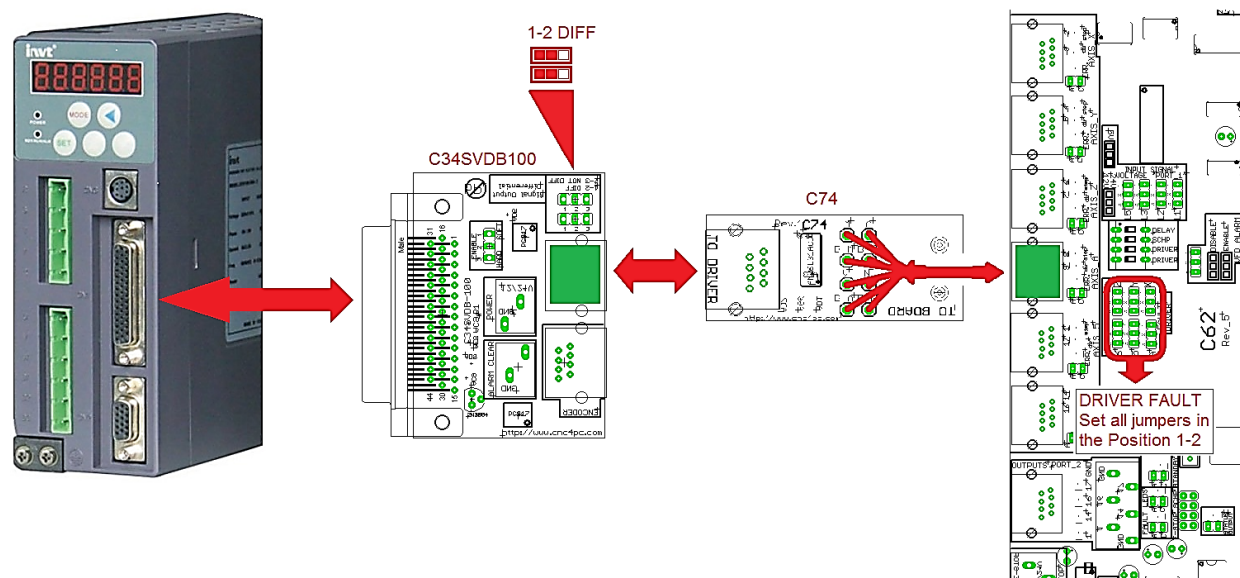
8.0 WIRING SAMPLE

6.1 Diagram of connection with input signals Step & Dir and C62.



Note: if This board is connected with C62 board does not requires an external power 12 /24VDC

6.2 Diagram of connection with input signals Differentials, C74 and C62.



Note: This wiring is just to illustrate a sample product application. Specific wiring may vary from system to system. It is the user's responsibility to implement it correctly.

9.0 PINOUT

RJ45 Distribution



CONN PLUG 44	RJ45 PIN	FUNCTION
24	1	STEP- / AX-
23	2	STEP+ / AX+
33	3	DIR- / BX-
3,4,12,30	4	GND
16	5	ENABLE
32	6	DIR+ / BX+
2	7	12/24VDC
-	8	5V

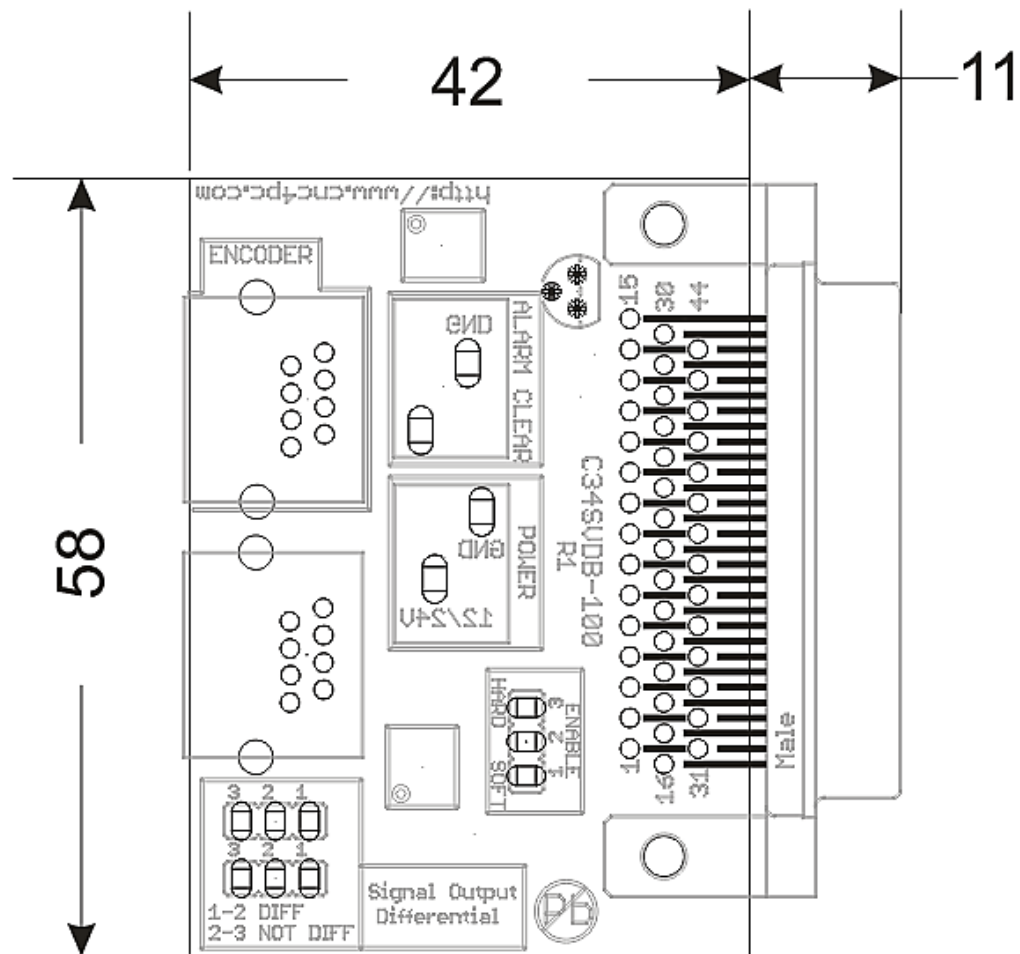
AX / BX = DIFFERENTIAL; When Differentials signals are used, the pins of RJ45 are 1 and 3

7.1 RJ45 for Encoder.



CONN PLUG 44	RJ45 PIN	FUNCTION
-	1	NOT USED
19	2	GND ENC.
27	3	I-
28	4	I+
43	5	A-
44	6	A+
42	7	B-
41	8	B+

10.0 DIMENSIONS



All dimensions are in Millimeters.

DISCLAIMER

Use caution. CNC machines can be dangerous machines. Neither DUNCAN USA, LLC nor Arturo Duncan are liable for any accidents resulting from the improper use of these devices. This board is not a fail-safe device and it should not be used in life support systems or in other devices where its failure or possible erratic operation could cause property damage, bodily injury or loss of life.