CNC4PC

Integration Solutions for CNC Projects

USER'S MANUAL VER. 1.5

C34YAKO BOARD
Rev. 1

APRIL 2021

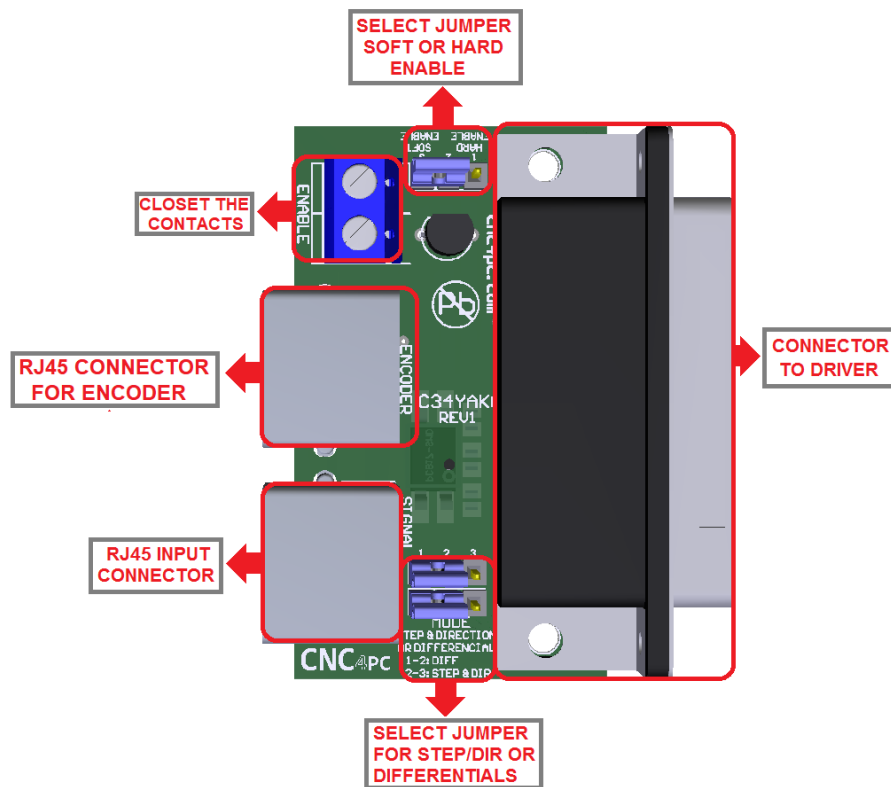# USER'S MANUAL

TABLE OF CONTENTS

1.0   OVERVIEW

This board interface is used for the connection between C82, C76, M16D, C35S, C62 and YAKOTEC AS2 AND ES2 SERVO DRIVE

2.0   FEATURES

- HDM44D connector for Connection of Driver.

- RJ45 Connector for Axis.

- Encoder Output.

- Select Jumper for Hard Enable or Soft Enable.

- Select jumper for signal differentials.

- Terminals for external drive enable push button.

3.0   BOARD DESCRIPTION

SELECT JUMPER SOFT OR HARD ENABLE

CLOSET THE CONTACTS

RJ45 CONNECTOR FOR ENCODER

RJ45 INPUT CONNECTOR

CONNECTOR TO DRIVER
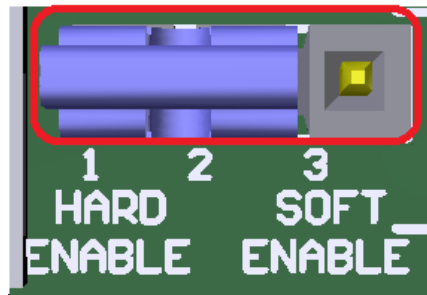
SELECT JUMPER FOR STEP/DIR OR DIFFERENTIALS

4.0   JUMPER TO SELECT THE ENABLE

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

SOFT ENABLE

1 HARD ENABLE   2   3 SOFT ENABLE
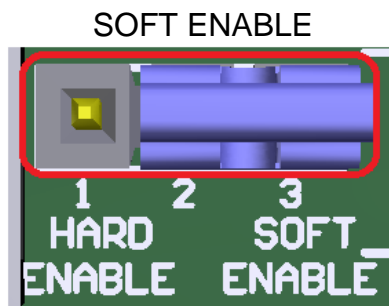
Use Hardware Enable to keep the driver enabled all the time.
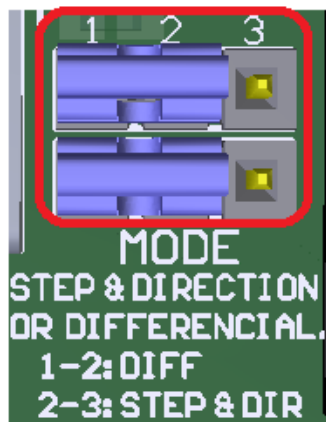Set of jumpers as shown in the image.

HARD ENABLE

JUMPER TO SELECT THE DIFFERENTIAL
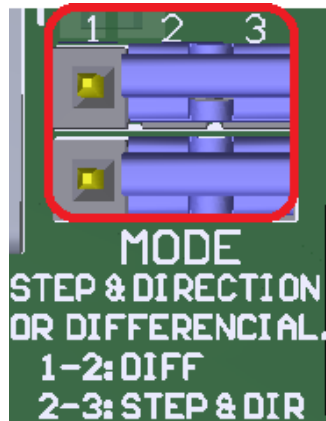
If working the inputs of STEP and DIR as differentials signals, you have to use the board, set jumper as shown in the image.

DIFERENTIAL.

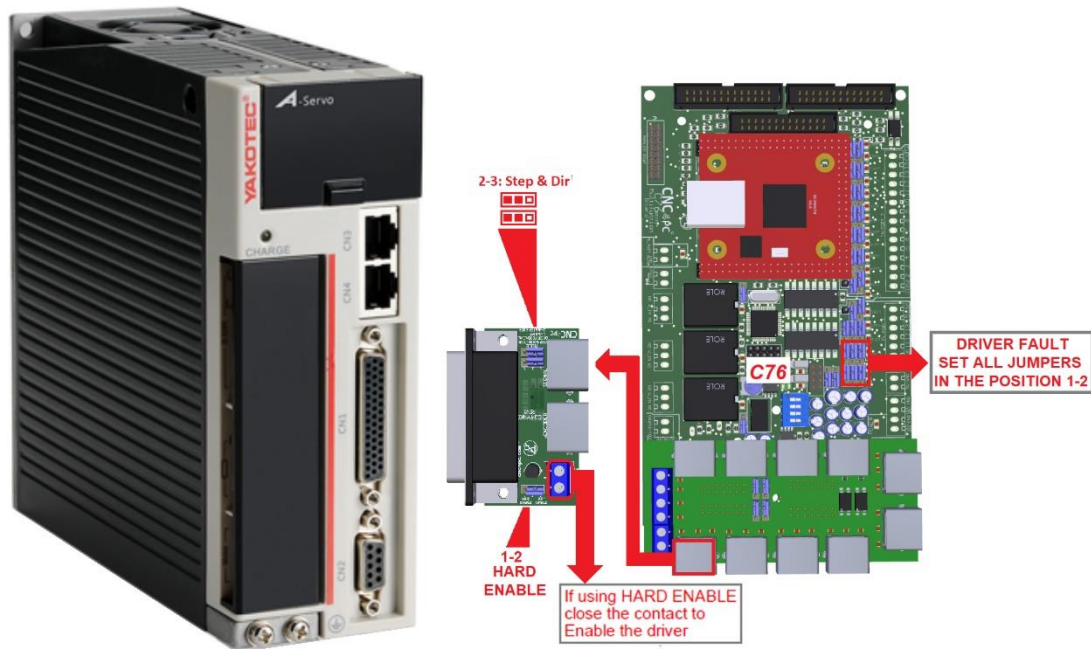

If not use the differential signal for STEP & DIR, set jumper as show in the image.
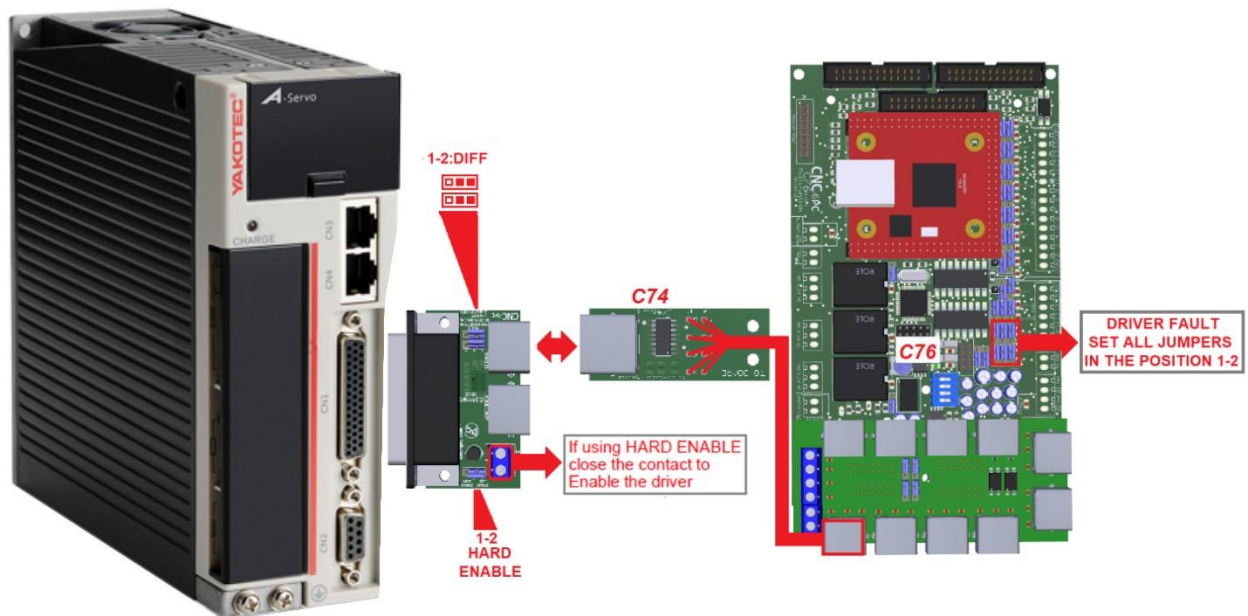
STEP & DIR

5.0   WIRING SAMPLE

5.1   Diagram of connection with input signals Step & Dir and C76.

5.2   Diagram of connection with input signals Differentials C74 and C76.

6.0 PINOUT

| YAKO DRIVE AND C34YAKO CONNECTION		
HDM44D PIN	**FUNCTION**	**RJ45 PIN**
43	STEP-	1
41	STEP+	2
39	DIR-	3
26	GND	4
33	SERVO ON *	5
1	ALARM	5
37	DIR+	6
11	24VDC	7
	5VDC	8

Note:
* Servo ON and Alarm signals are related to the RJ45 pin 5 of the C34YAKO board, but they are not connected directly to this pin.

RJ45 for

HDM44D PIN	**RJ45 PIN**	**FUNCTION**
26	1	GND
	2	NC
24	3	Z-
13	4	Z+
22	5	A-
21	6	A+
23	7	B-
25	8	B+

Encoder

7.0   DIMENSION
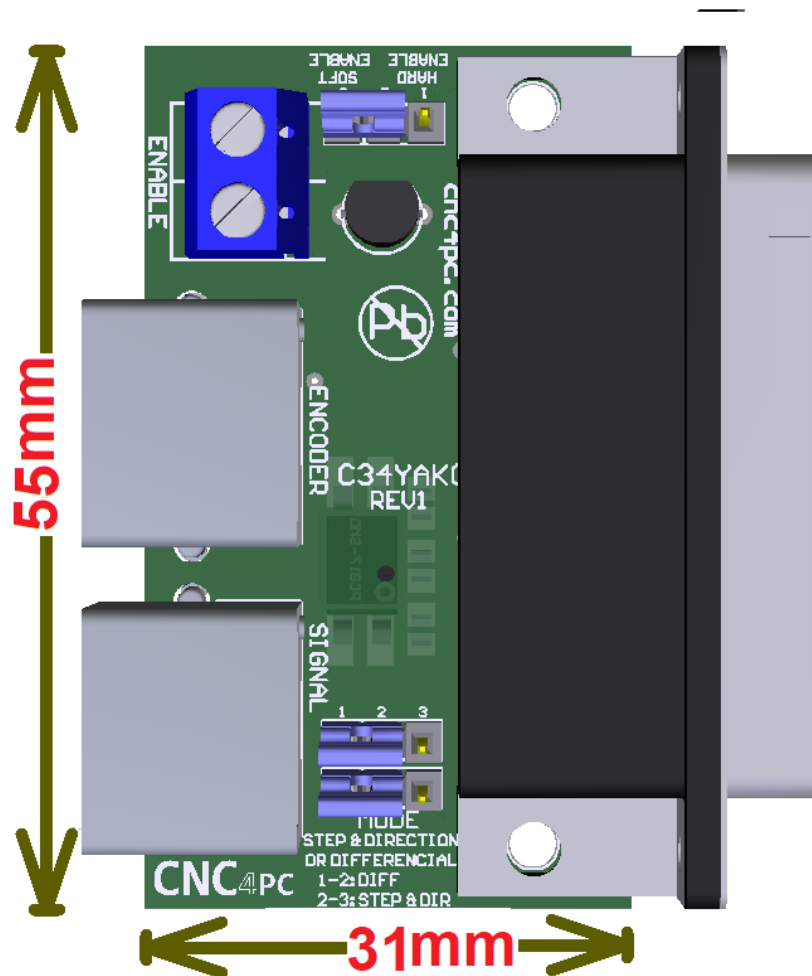
All dimensions are in Millimeters.

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 product 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.