CNC4PC C34AB Board User Manual

CNC4PC C34AB Board

Contents

OVERVIEW

This interfaces board is used for the connection between C35, C32, C62 or C74 and the ALLEN BRADLY ULTRA 3000 SERVO DRIVE

FEATURES

- HDM44D connector for Connection of Driver.
- RJ45 Connector for Axis.
- Select Jumper for Hard Enable or Soft Enable.
- Select Jumper for signals Differentials
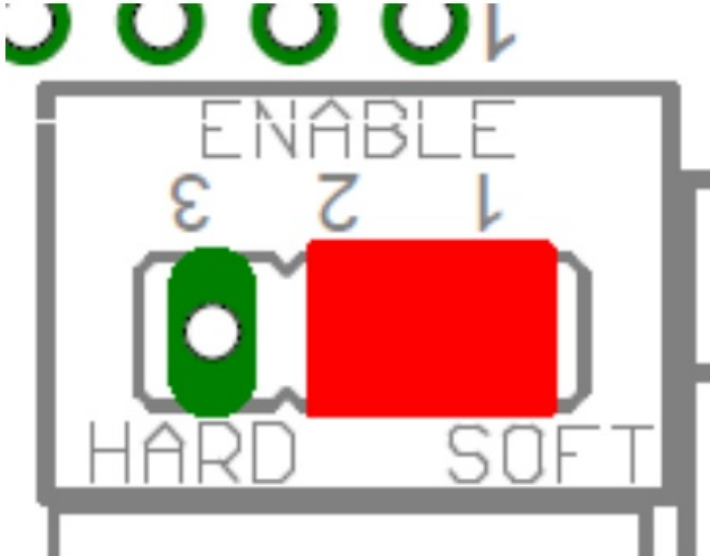- Terminals for external power supply 5V and 24V
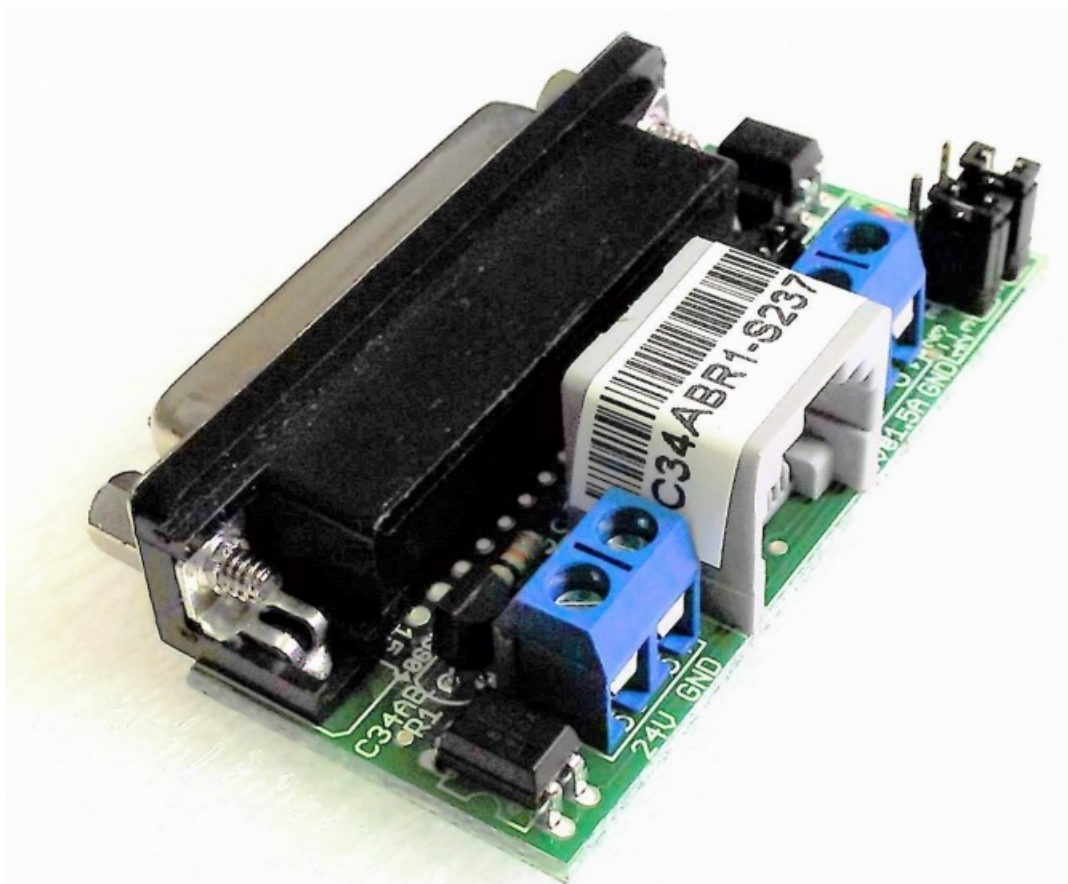
BOARD DESCRIPTION
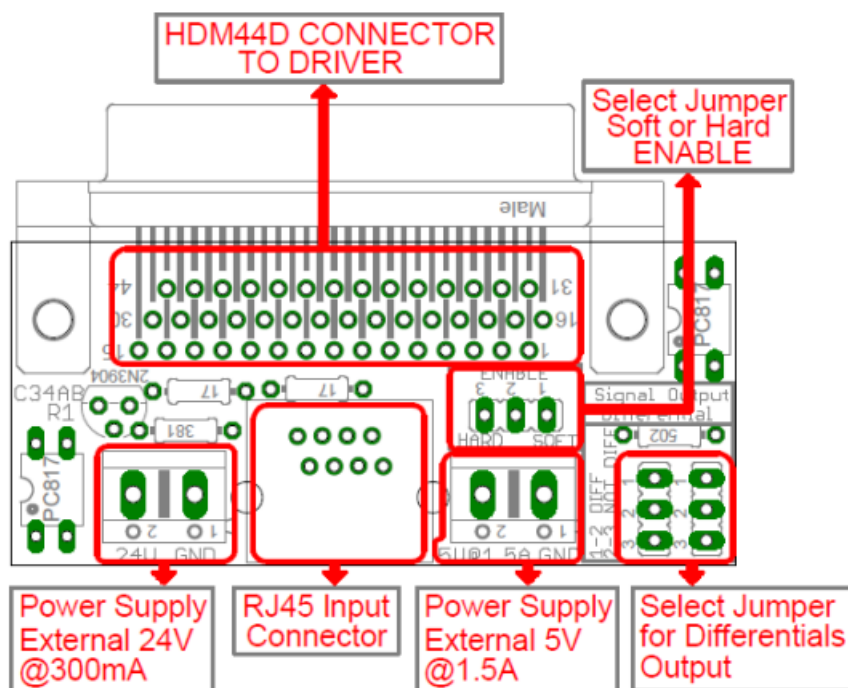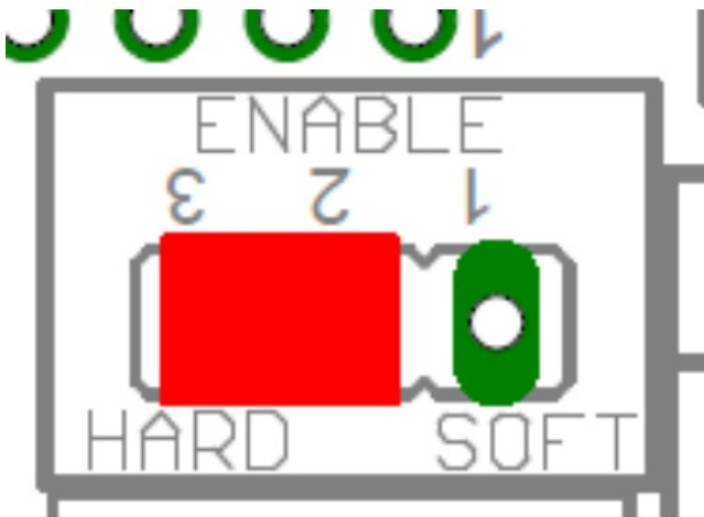
JUMPER TO SELECT THE ENABLE

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

SOFT ENABLE

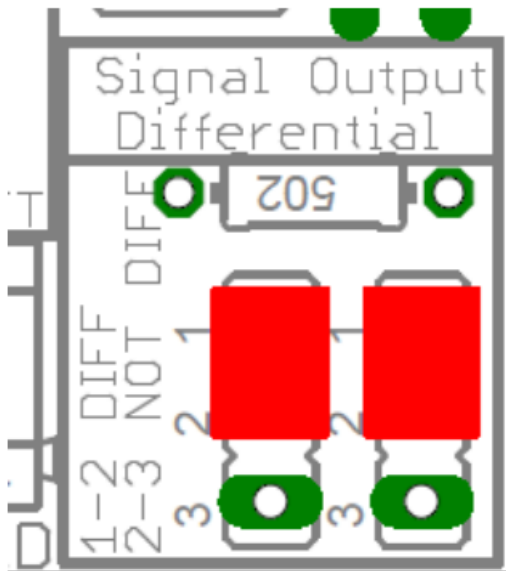Use Hardware Enable to keep the driver enabled all the time. Set of jumper as shown in the image.

HARD ENABLE

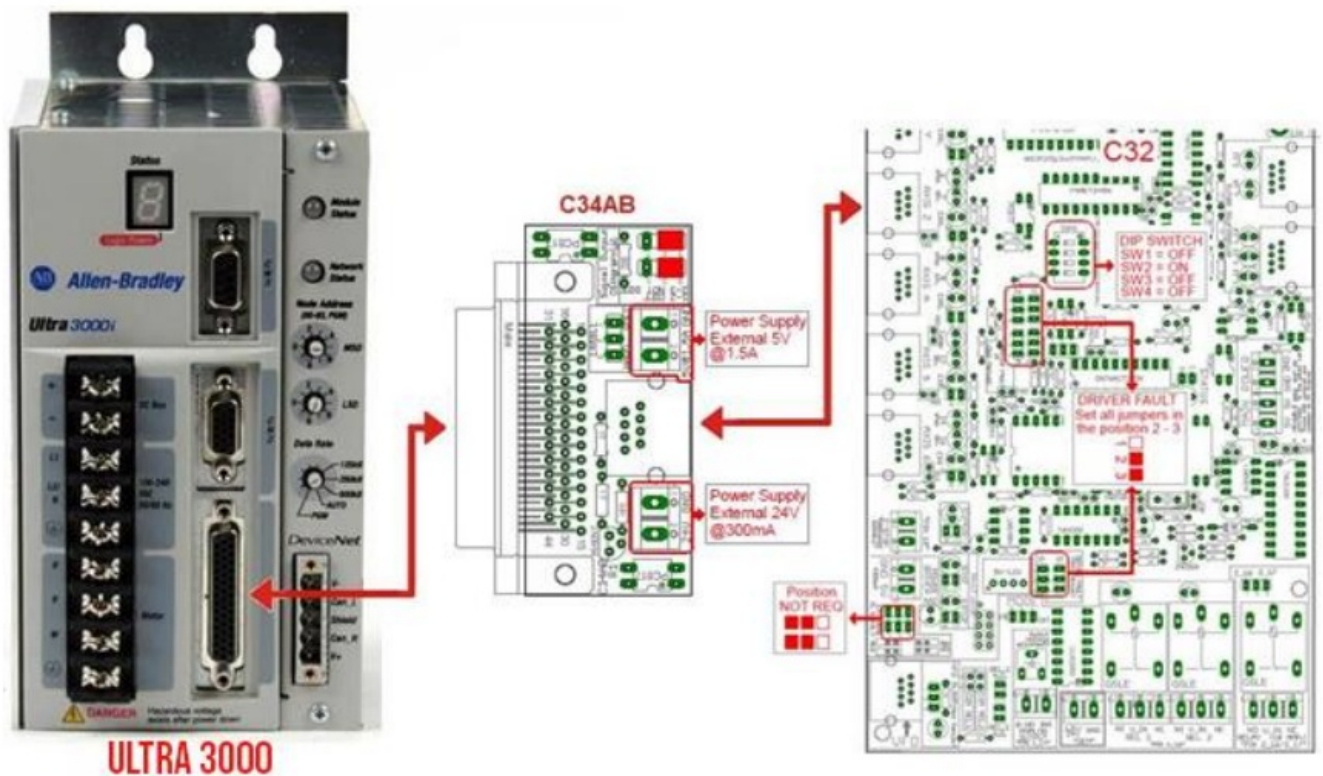

JUMPER TO SELECT THE DIFFERENTIAL OUTPUT

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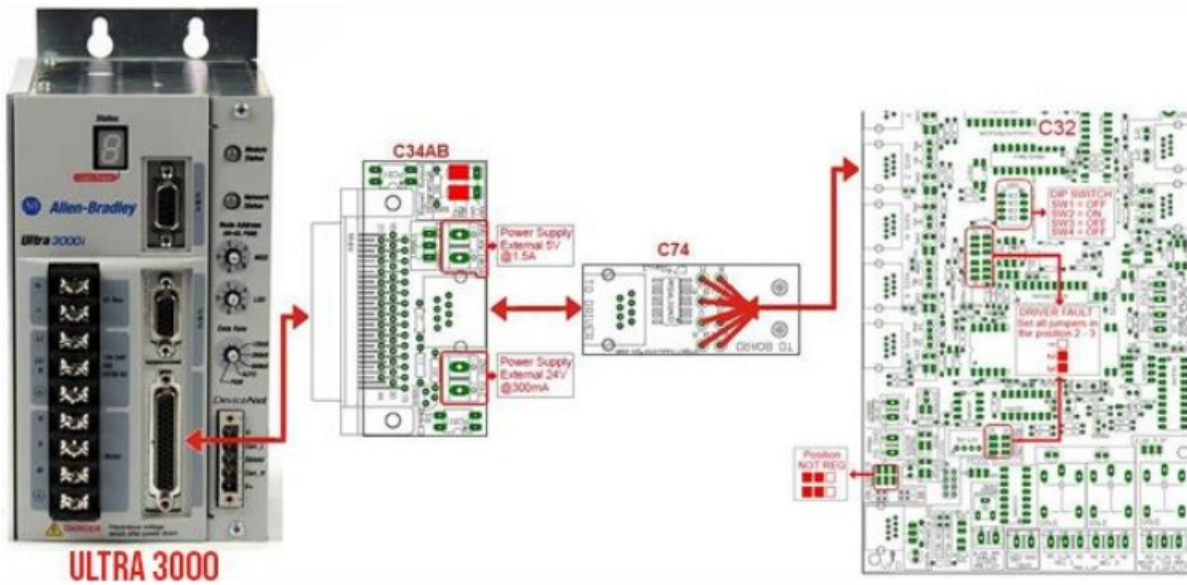
DIFFERENTIAL

WIRING SAMPLE

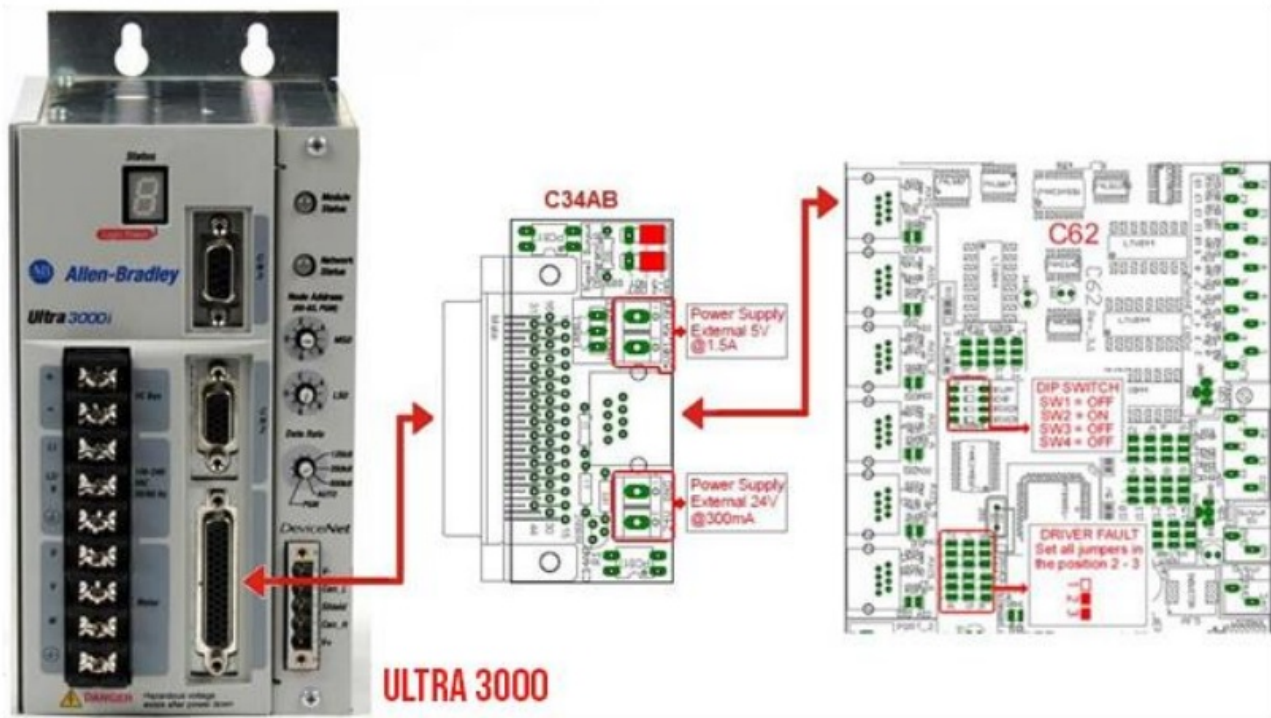**Diagram of connection with output signals not Differentials and C32.**

6.2 Diagram of connection with output signals Differentials, C74 and C32.
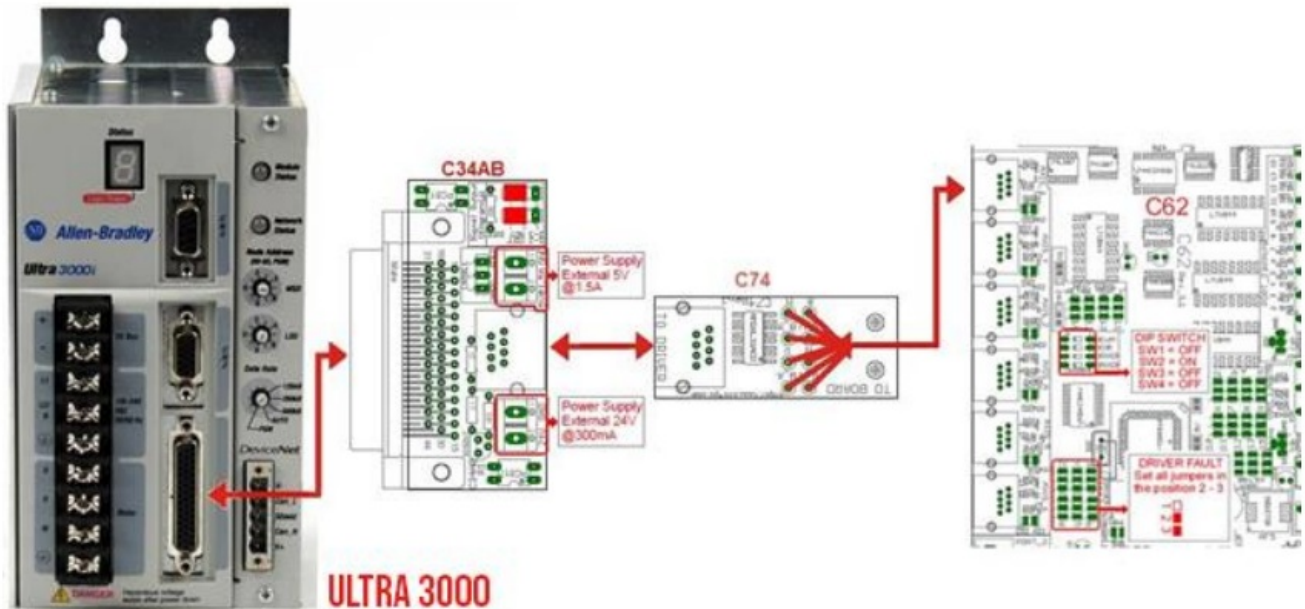
6.3 Diagram of connection with output signals not differentials and C62.

6.4 Diagram of connection with output signals Differential, C74 and C62.

ULTRA 3000

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.

PINOUT

ULTRA 3000 AC SERVO DRIVE AND C34AB CONNECTION		
HDM44D PIN	FUNCTION	RJ45 PIN
2	COM-(5v)	4
3	EXT 5V+	NOT USED
4	STEP+	2
5	STEP-	NOT USED/ DIF 1
6	DIR+	6
7	DIR-	NOT USED/ DIF 3
27	COM-(24V)	NOT USED
29	24V	NOT USED
31	SERVO ON	NOT USED
39	ALARM	NOT USED

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

DIMENSION
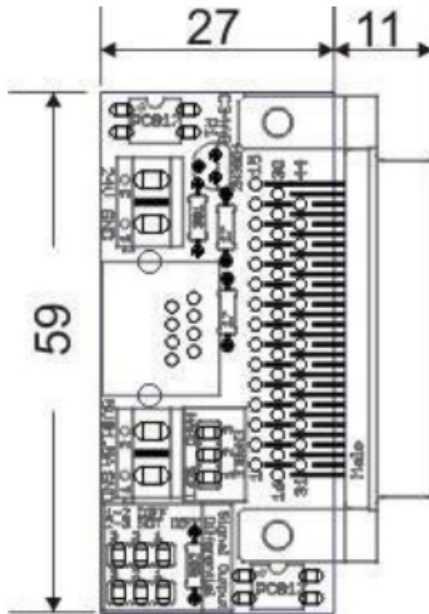
All dimensions are in Millimeters.

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 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.

Documents / Resources

	[**CNC4PC C34AB Board**](#) [pdf] User Manual C34AB Board, C34AB, Board