



**USER'S
MANUAL
VER.1**

**C34CP DRIVER CLEARPATH
BOARD Rev. 1**



SEPTEMBER, 2016

USER'S MANUAL

TABLE OF CONTENTS

Page #

Contents

1.0	OVERVIEW.....	1
2.0	FEATURES.....	1
3.0	BOARD DESCRIPTION.....	1
4.0	JUMPER TO SELECT THE ENABLE.....	2
5.0	WIRING SAMPLE.....	3
5.1	Diagram of connection with, C34CP and C32S.	3
5.2	Diagram of connection with, C34CP and C62.....	4
6.0	PINOUT.....	5
7.0	DIMENSION.....	6

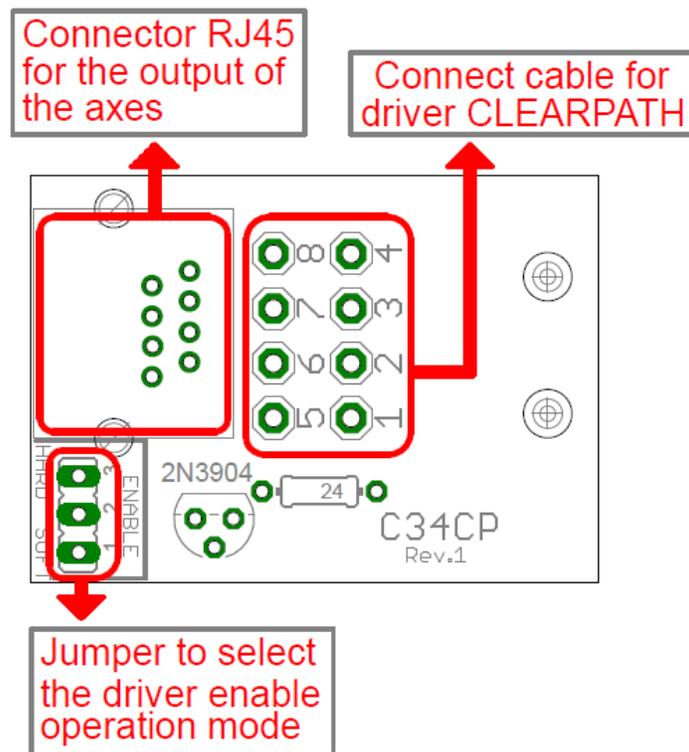
1.0 OVERVIEW

This interfaces board is used for the connection between C35S, C32S or C62 and the CLEARPATH SERVO DRIVE.

2.0 FEATURES

- Cable for connecting a driver CLEARPATH.
- RJ45 Connector per Axis.
- Select Jumper for Hardware Enable or Software Enable.
- Integrates the fault and enable lines to the breakout board. Allowing a driver fault to trigger E-STOP and to be able to disable the driver when the system is disabled.

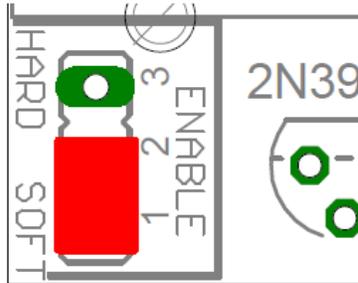
3.0 BOARD DESCRIPTION



4.0 JUMPER TO SELECT THE ENABLE

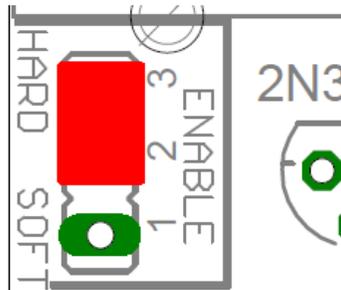
Use Software Enable to keep the driver active only while the system is active.
Set of jumper as shown in the image

SOFT ENABLE



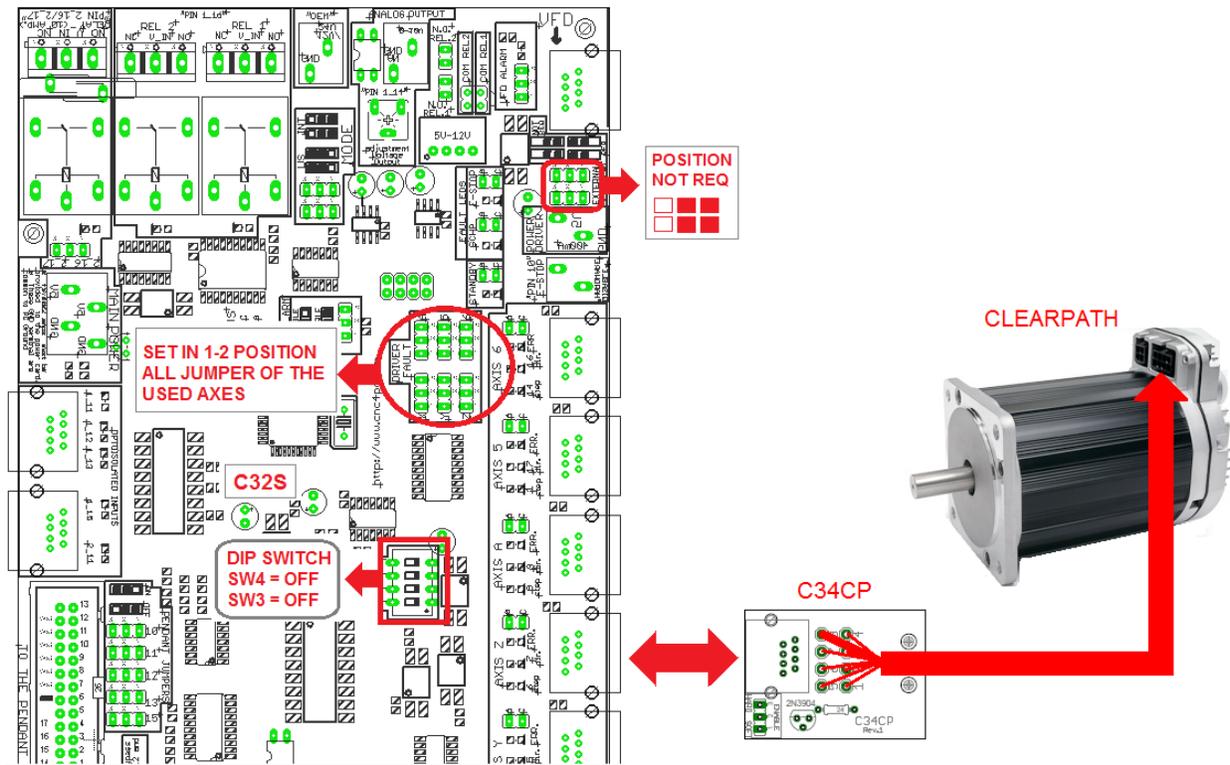
Use the Hardware Enable to force the driver to stay enabled.
Set of jumper as shown in the image

HARD ENABLE



5.0 WIRING SAMPLE

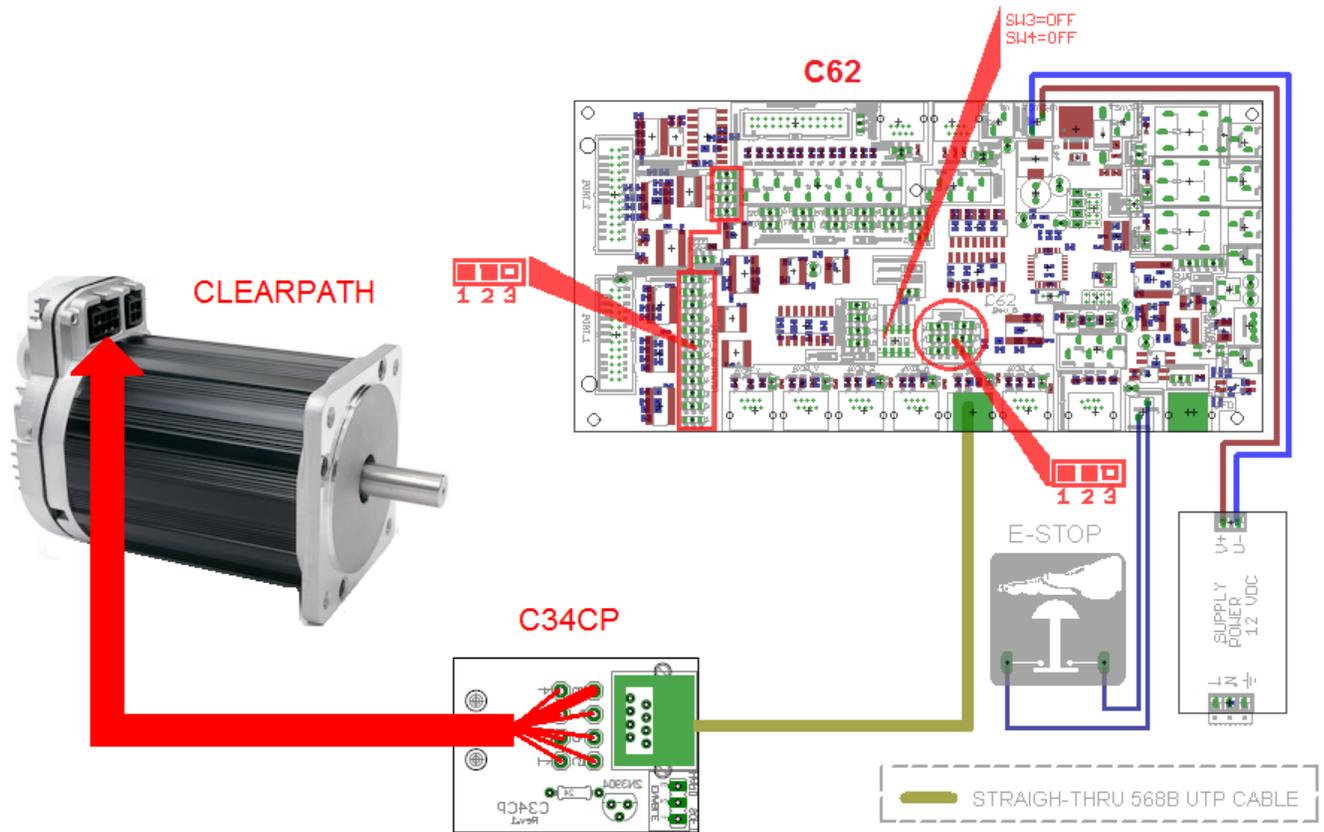
5.1 Diagram of connection with, C34CP and C32S.



Note:

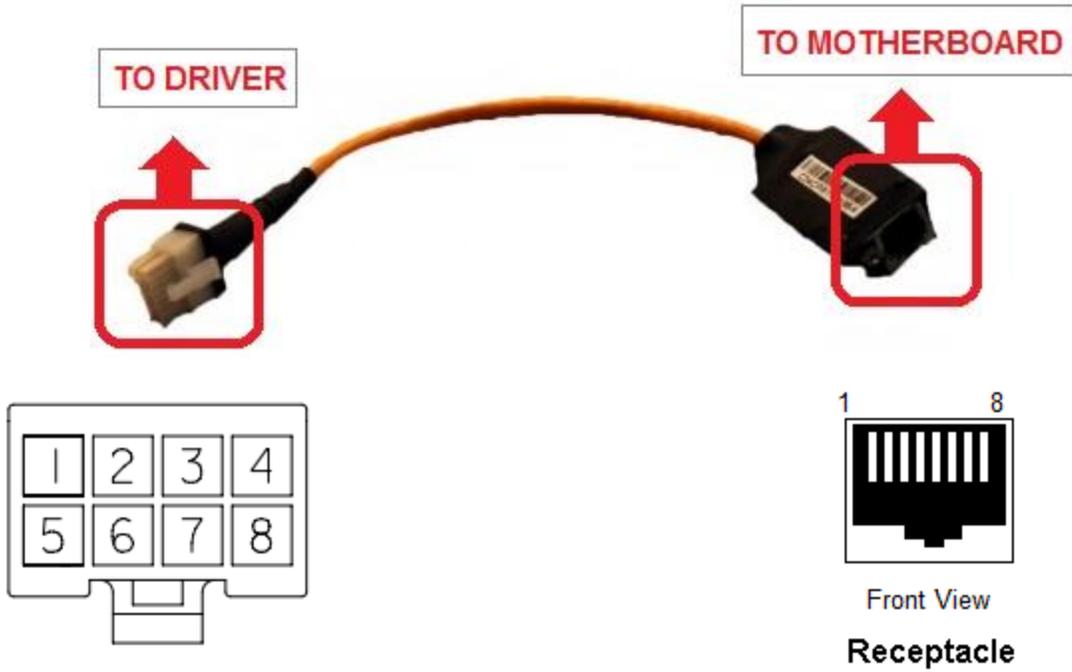
Soft enable mode is available only when using the C32 and C62 boards. In this case the C32 will enable or disable the drive and it also monitors the driver alarm signal.

5.2 Diagram of connection with, C34CP and C62.



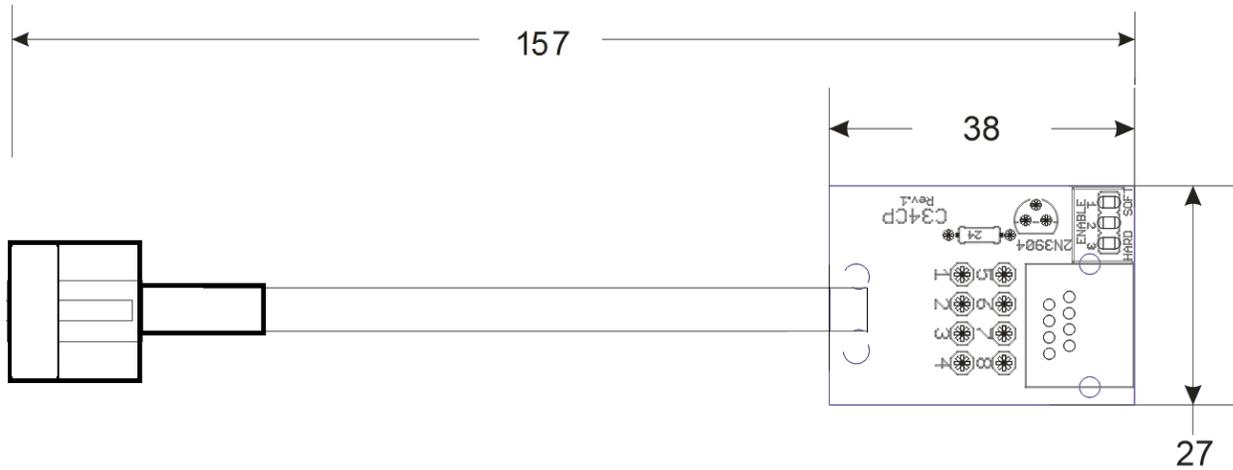
Note: This wiring is just to illustrate a sample product application. Specific wiring may vary from system to system. It is the user's responsibility to implement it correctly.

6.0 PINOUT



C34CP AND DRIVER CLEARPATH		
PIN CLEARPATH	FUNCTION	RJ45 PINS
1	HLFB+	N/A
2	INPUT_B+ (STEP+)	2
3	INPUT_A+ (DIR+)	6
4	ENABLE +	5
5	HLFB-	4
6	INPUT_B- (STEP-)	4
7	INPUT_A- (DIR-)	4
8	ENABLE-	4

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 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.