CNC4PC

Integration Solutions for CNC Projects

USER'S MANUAL

C34G320X BOARD
Rev. 5

NOVEMBER 2014

USER'S MANUAL

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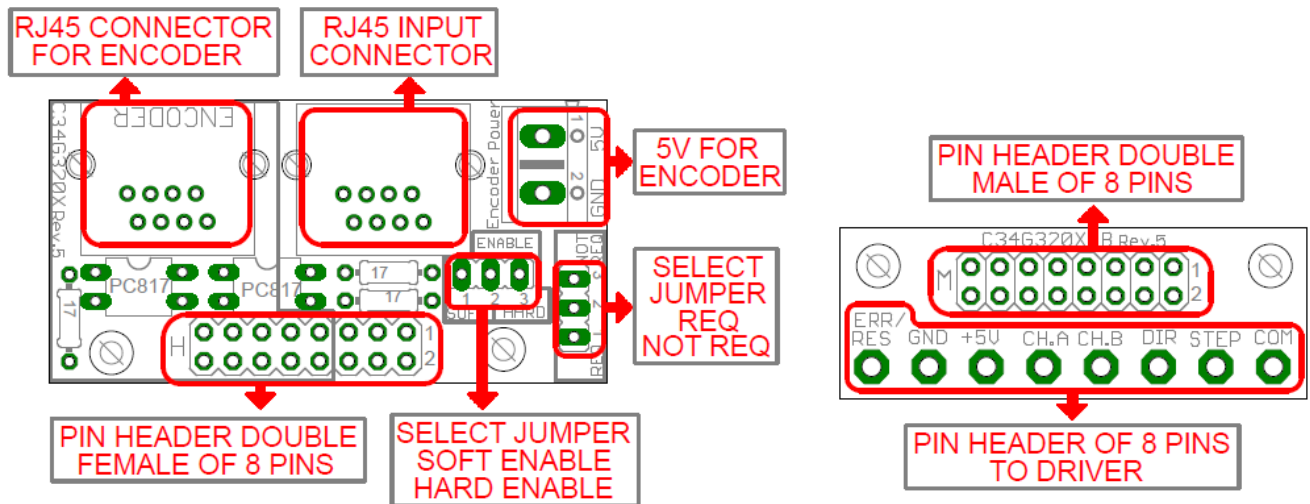
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Contents

1.0   OVERVIEW

This board simplifies connecting Gecko G320/340, and G320X Stepper Drivers to RJ45 connector boards, such as the C32 or C62 boards. As just a regular twisted pair RJ45 cable needs to be used.

2.0   FEATURES

- Pin Header of 8 pins for Connection of Driver.

- RJ45 Connector for the axes.

- RJ45 Connector for encoders

- Terminals to power the encoder

3.0   BOARD DESCRIPTION

RJ45 CONNECTOR FOR ENCODER

RJ45 INPUT CONNECTOR

5V FOR ENCODER

SELECT JUMPER REQ NOT REQ

PIN HEADER DOUBLE MALE OF 8 PINS

PIN HEADER DOUBLE FEMALE OF 8 PINS

SELECT JUMPER SOFT ENABLE HARD ENABLE

PIN HEADER OF 8 PINS TO DRIVER

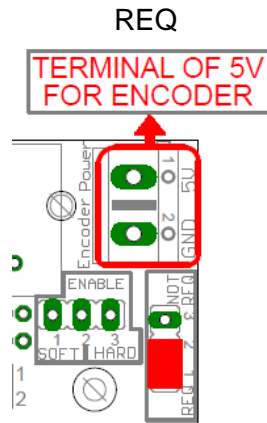ERR/RES GND +5V CH.A CH.B DIR STEP COM

4.0   JUMPER TO SELECT (REQ OR NOT REQ)

If using an encoder that demands less of 50mA and external power supply is not required, set jumper to the not required position.
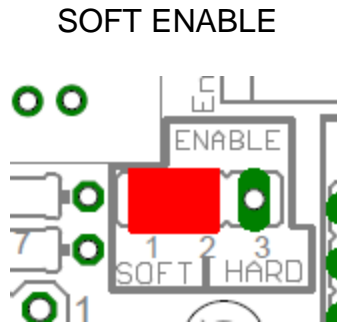
NOT REQ
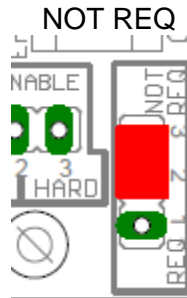
Otherwise, add and external power supply and set the jumper to REQUIRED.

REQ

TERMINAL OF 5V
FOR ENCODER

5.0   JUMPER TO SELECT THE ENABLE

The drivers can be set to be enabled by the board only while the system is active. For this set the jumper to SOFT ENABLE.

SOFT ENABLE

Hardware Enable will keep the driver enabled all the time.

HARD ENABLE
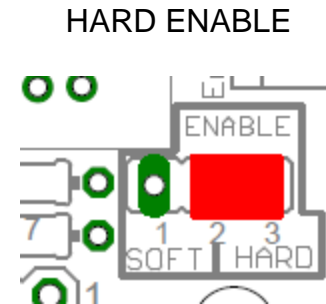
WIRING SAMPLE
http://cnc4pc.com/Tech_Docs/1-C34G320R3.1_AMT102.pdf

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

STEP and DIR RJ45	
PIN RJ45	FUNCTION
1	NOT USED
2	STEP
3	NOT USED
4	GND
5	ERR/RES
6	DIR
7	NOT USED
8	5V

ENCODER RJ45	
PIN RJ45	FUNCTION
1	GND
2	5V
3	NOT USED
4	NOT USED
5	NOT USED
6	A+
7	NOT USED
8	B+

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.