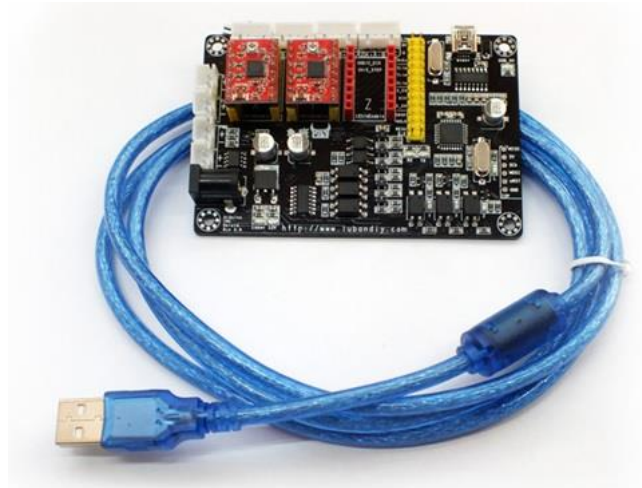# CNC Three Axis Stepper Motor Drive Controller Motherboard compatible with Arduino-Datasheet

Specification:

1. Model number: LAB-B-V4
2. Appearance size: 96.5*65 (mm)
3. Hole distance size: 88.5*57 (mm)
4. Laser power: 100mW~10W Support PWM output (unlimited power)
5. Power supply: 12V
6. Number of axles :XYZ three axles, default with XY axles driver
7. Stepper motor: 4-wire two-phase, 6-wire two-phase
8. Motor subdivision: 16 times
9. Prompt light: Power supply, laser, XYZ axis status, data transmission, burning, USB
10. Limit switch: can be connected to XYZ limit switch
11. Motor power: single motor Max. 2A

X轴步进电机
X axis stepper motor

Y轴步进电机
Y axis stepper motor

Z轴步进电机
Z axis stepper motor

USB连接电脑
USB connection computer

12V输出
12V Output

12V输出
12V Output

PWM输出
PWM Output

激光输出
Laser Output

12V输入
12V Input

A4988驱动器
A4988Stepping motor driver

接收/Receive

发送/Transport

USB

烧录
Download

激光/Laser

电源/Power

Y轴/Axis Y

X轴/Axis X

Z轴/Axis Z

Φ3.5MM　　88.5MM

65MM　　　　　　　　57MM

96.5MM

GND/X_DIR　　GND/Y_DIR　　GND/Z_DIR
5V/X_STEP　　5V/Y_STEP　　5V/Z_STEP

X　　Y　　Z

12V/nEnable　12V/nEnable　12V/nEnable

MISO
5V
5Ck
MOSI
nRST
GND
ISP

RX　TX

USB_5V

Arduino
CNC
Shield
Rev 3.0

Laser 12V　　http://www.lubandiy.com

步进电机驱动器

ENA−
ENA+
DIR−
DIR+
PUL−
PUL+

B−
B+
A−
A+

GND
VCC

GND
DIR
GND
STEP

B−
B+
A−
A+　步进电机

GND
VCC　直流电源

GND　　GND　　　　DIR　　STEP

GND/Y_DIR
5V/Y_STEP

Y

12V/nEnable