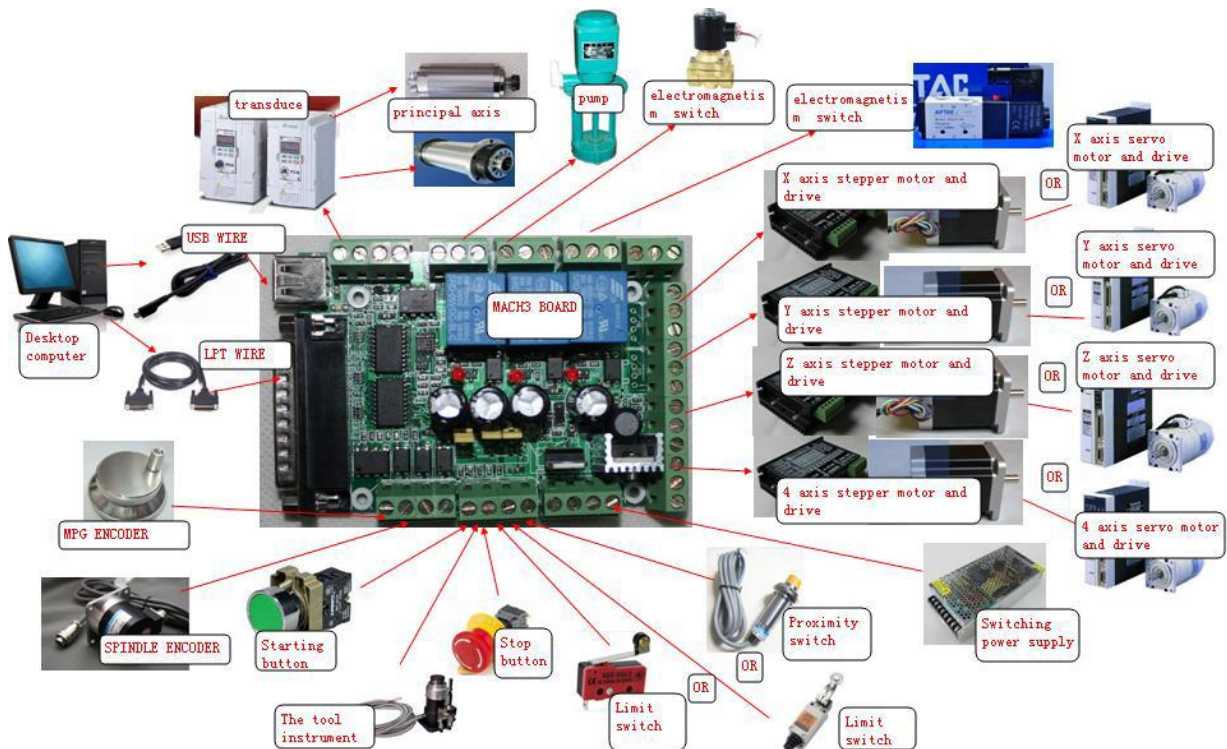
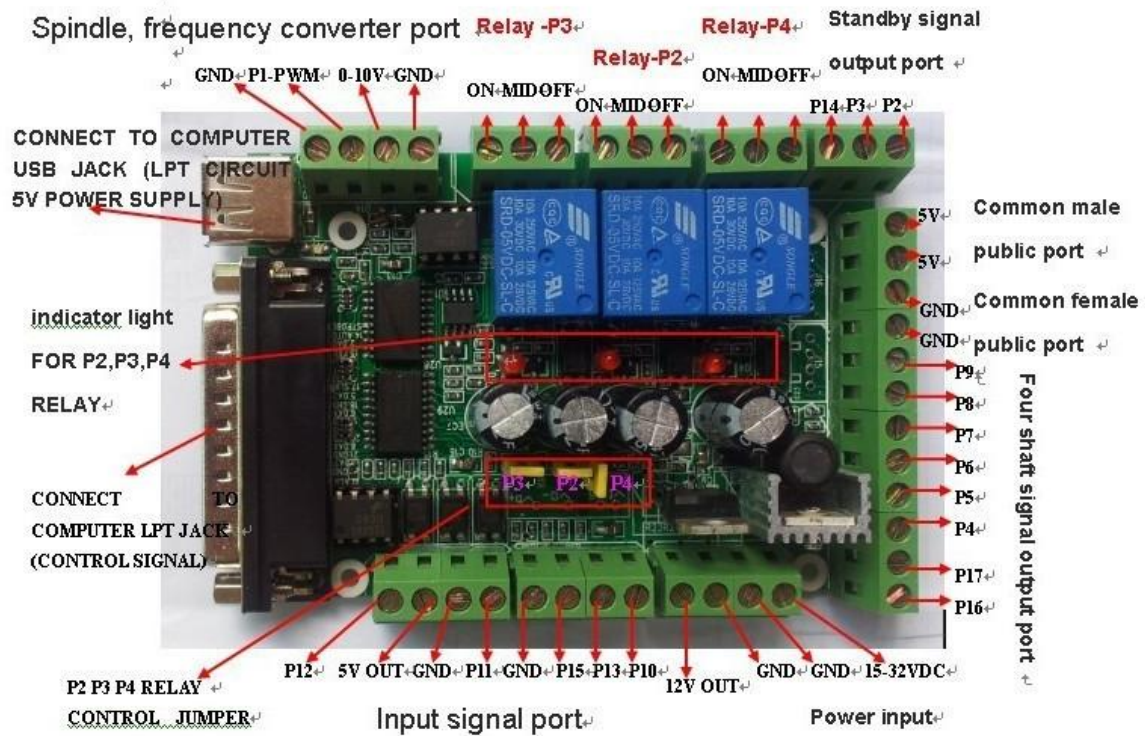


Profi4 Main Board Description

- 1, All output and input models by Philips dedicated high-speed chip processing, the signal is an integer, amplification, eliminating unnecessary interference signal. The operation of the machine more stable.
- 2, USB and external power supply. The power supply isolation. Computer and data processing machines more secure
- 3, all of the input signal by the optical coupling isolation all of which P11, P12 port for high-speed optical coupling can be used to connect the spindle encoder, or hand-wheel A, B equal to demanding signal.
- 4, there is a special off the total electric power supply of the relay, the computer shuts down automatically when carving machine with other equipment, turn off all power.
- 5, there is a special relay switch coolant supply, support MACH3, G code programming (parallel port P3, G code to open M8, M9 off), the relay switch on the lights. Easy to determine the power off.
- 6, there is a spindle-powered ad hoc relay support MACH3, G code programming (parallel port P2 I, G to open the code M3, M2 off), the relay switch on the lights. Easy to determine the power-off
- 7, on the spindle speed control: special high-speed optical coupling isolation, can output PWM signal output for the parallel port P1.
- 8, the interface board have a PWM to 0-10V digital-analog conversion circuit. Can output 0-10V level to control the market and control the speed of only analog converter. To control the spindle speed. Output for the parallel port P1.
- 9, the interface board can be connected common cathode or common anode output to the stepper drive or servo drive. Output for the 5V level.
- 10, wide voltage power supply, 12V or 16-35V can choose a set of two power supply. Reversed with anti-power input design.





Pin	Function	Description
1	Speed Control	Spindle Speed Control
2	Alternate port	Relay or Alternate port
3	Alternate port	Relay or Alternate port
4	Step X	X pulse signal
5	Dir X	X direction of signal
6	Step Y	Y pulse signal
7	Dir Y	Y direction of signal
8	Step Z	Z pulse signal
9	Dir Z	Z direction of signal
10	X limit	Input signal 1
11	On the knife	Input signal 2
12	Emergency stop	Input signal 3
13	Y limit	Input signal 4
14	Spare port	Spare port
15	Z limit	Input signal 5
16	Step 4	4 pulse signal
17	Dir 4	4 direction of signal
18-25	GND	GND