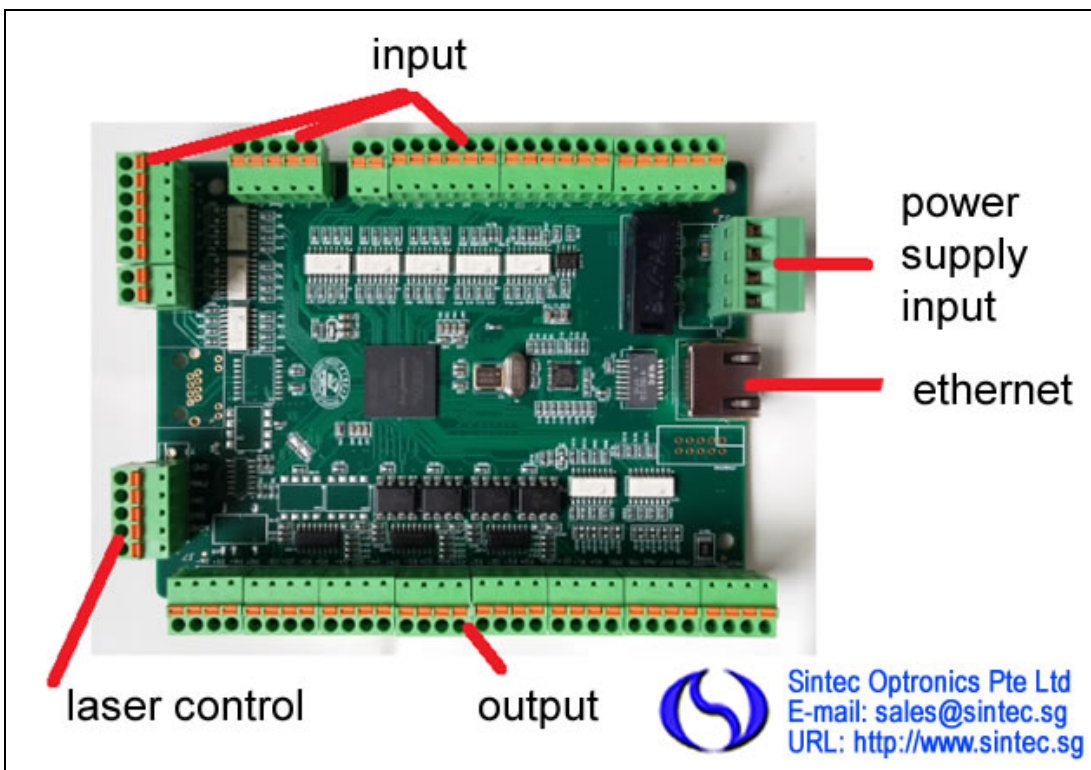


CNC Control Card and Software

Our CNC2000 control card and software can maximally support 6-axis control at the same time. It operates under Windows such as Win10, Win7, Win2000, WinXP, Windows98, WindowsSME or Windows95. It can be used in the numerical control system of 3-axis linear motion + 3-axis rotational motion (X,Y,Z,C,A,B) or 6-axis rotational motion (6-joint mechanical arm). Also it can control all the lasers in the market such as YAG lasers, CO2 lasers, fiber lasers and ultrafast lasers.

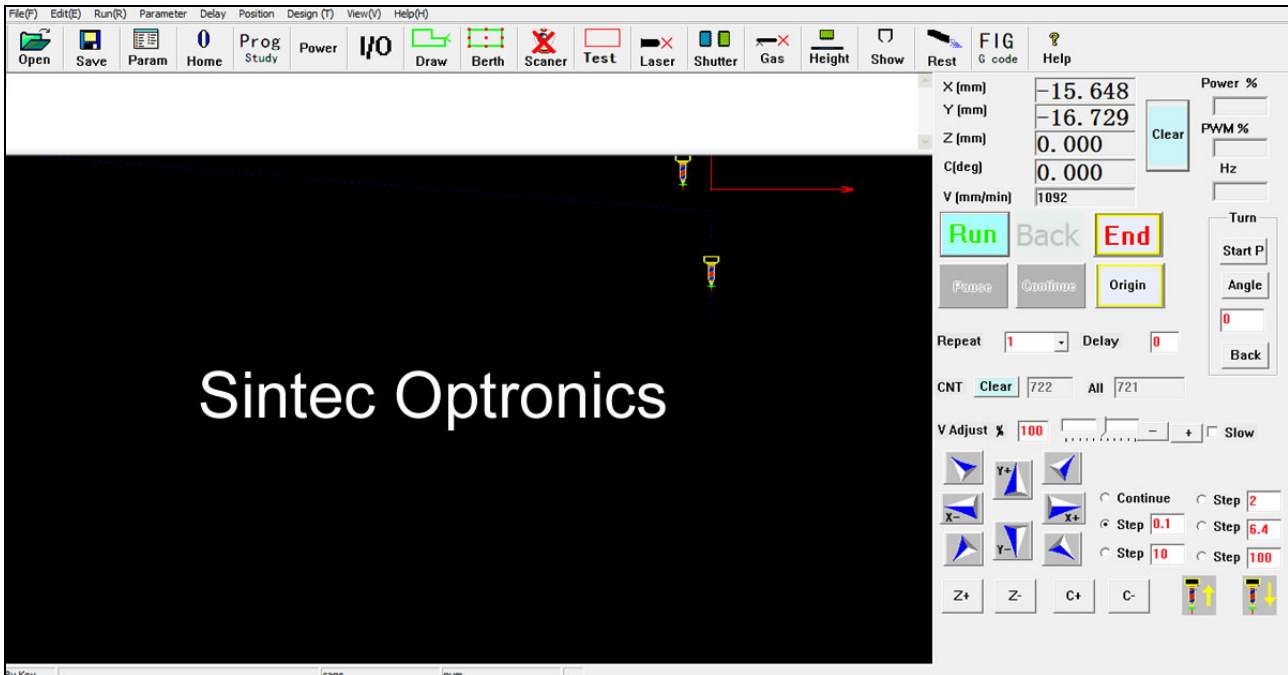
The CNC control card is an Ethernet card which is more convenient for connections. The advantages and features of the CNC control card are

- Better stability, anti-interference and precision than traditional PCI card
- More convenient for connections
- No need to have a PCI slot to insert the control card
- Operate in all versions of Windows systems
- Operate in laptop or desktop computers
- Can output 0-10V analogue voltage to achieve the real-time control of the fiber laser power
- Can output 24V PWM signals to control the frequency and pulse width of the fiber lasers or CO2 lasers
- One control card can support 6-axis system and combined 2 cards can support 10-12-axis system
- The number of the input ports has been increased to 32 to achieve multi-station control and various kinds of logic control according to different input signals

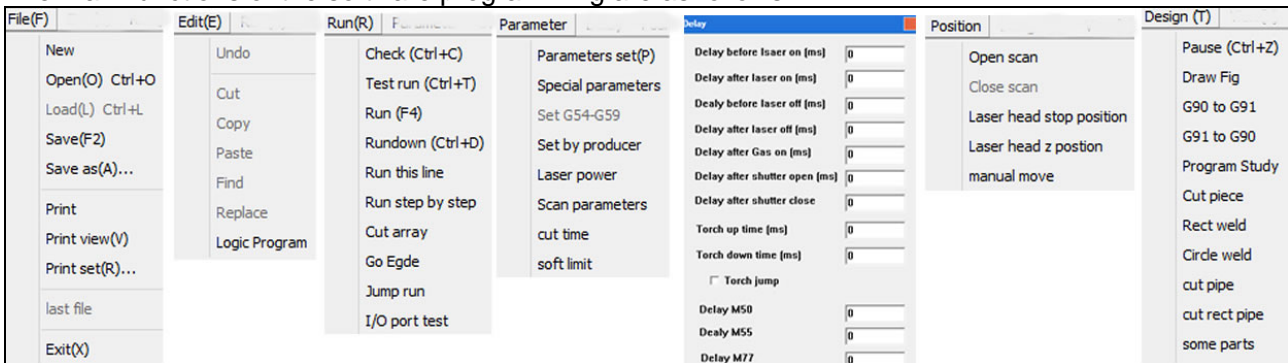


Our control cards are made with multi-layer circuit boards and power source and ground are separated into two layers. Although the card costs more, they improve the performance of anti-interference. Thus our cards can be used in precise control.

Our software's functions are strong and easy to operate. The programming is simple and easy. There are 3 methods to write a programming: automatic conversion of PLT and DXF files, teaching or CNC programming. The software programming panel is as follows:



The main functions of the software programming are as follows:



The main programming points are as follows:

- Maximum axis: 6
- Program verification function
- MDI function
- Absolute/increment programming (G90, G91)
- Programming using inch, metric, pulse number (G20, G21, G22)
- Mirror function (G24, G25)
- Zoom (magnification/demagnification) (G50, G51)
- Automatic, step, manual, home function
- Fast position (G00), linear interpolation (G01)
- Arc interpolation (G02, G03)
- Pause (G04), screw thread function (G33)
- Set/back zero (G29, G30)
- Reverse clearance compensation, beam diameter compensation (G40, G41, G42)
- Coordinate rotation (G68, G69)
- Sub-function
- Static/dynamic emulation
- Max stepping frequency: 200000Hz
- Automatic acceleration/deceleration
- Automatic conversion of PLT and DXF files

Ordering Information

Part number	Description
ST-CNC2000-4S	4-axis control and to switch on/off laser beam such as YAG laser

ST-CNC2000-4M	4-axis control and to fully control all types lasers such as YAG, CO2 or fiber lasers
ST-CNC2000-6S	6-axis control and to switch on/off laser beam such as YAG laser
ST-CNC2000-6M	6-axis control and to fully control all types lasers such as YAG, CO2 or fiber lasers