CENTROID™

159 Gates Road, Howard, PA 16841 USA
(814) 353-9290
www.centroidcnc.com

OAK Board: Single board CNC Controller 4 axis standard, expandable to 5,6,7 or 8 axis.

Built-in: 4-Axis 3rd Party Digital Servo Drive Interface, Spindle Control and CNC PLC (16 in/9 relay out)
Starting at **$1595** with CENTROID Mill or Lathe software

CNC PC choices:

OR: OR:

Your Windows 7/8/10 PC

*must meet minimum performance requirements, you install software.

Touchscreen All-in-One PC
$1200 (11084tb)
(w/ factory installed software)

Our CNC PC $1175 cabinet mount (#11084) & your display
(factory installed software)

OR: Touch Screen CENTROID CNC Console

Three console variations to choose from
- CNC console $1595 (#13139)
- CNC console w/ built-in CNCPC $3049 (#13181)
- Panel Mount w/ CNCPC $2645 (#13934)
See console brochure for list of options and accessories @ www.centroidcnc.com/downloads.htm

Optional PLC I/O Expansion Boards
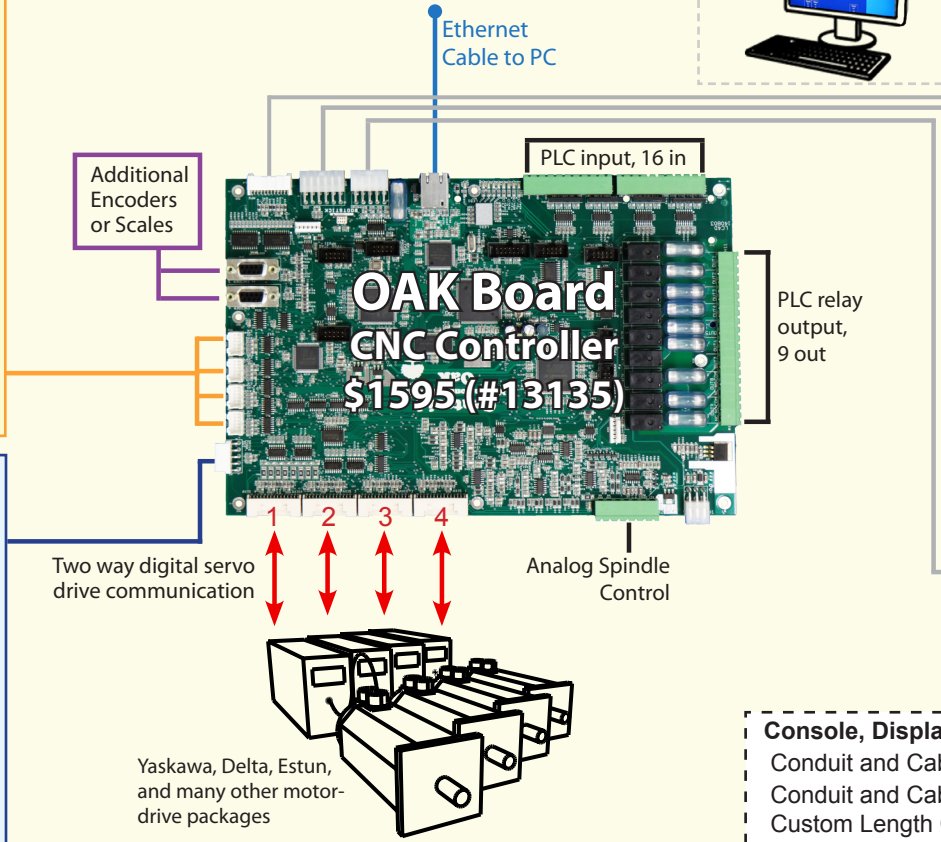Add more I/O, up to 4 (in any combination) for up to 272 IN / 272 OUT

PLC Add 1616
16 Inputs (5, 12, 24 VDC)
16 Relay Outputs
$395 (#11025)

Add4AD4DA
4 Digital to Analog Outputs
4 Analog to Digital Inputs
$525 (#11141)

PLC Add 6464
64 Inputs 5V non isolated
64 Outputs Open Collector
$1300 (#11212)

Additional CENTROID Servo Drive Interface Options

Optional: Servo drives, Optical drive interface and Encoder expansion board.
Connect up to 4 via daisy chain

Easily add a 5th,6th,7th or 8th axis. OpticDirect allows you to add an additional axis to the OAK board's built in 4 axis communication. One Optic Direct adds one additional axis to the system.

CENTROID OpticDirect
Servo drive interface $450 (#12554)
(drive communication via fiber optics)

CENTROID AC/DC servo drive
30 amp AC/DC-30 $1370 each(#12854)
60 amp AC/DC-60 $1490 each(#12855)

CENTROID Encoder Expansion Board
(adds 6 more encoder ports)
$395 (#13085)

Additional Encoders or Scales

Ethernet Cable to PC

OAK Board CNC Controller $1595 (#13135)

PLC input, 16 in

PLC relay output, 9 out

1 2 3 4

Two way digital servo drive communication

Analog Spindle Control

Yaskawa, Delta, Estun, and many other motor-drive packages

Optional Operator's Control Panel
$765 (#11077)

Optional Remote Hand Wheel Pendant (MPG)
$495 (#11069)

Optional Touch Probe & Software
DP-4 $1590 (#10405)
DP-7 $4200 (#12431)

Optional Auto Tool Set
- **TT-2 $1350** (#12486)
- **TT-1 $725** (#10220)

Oak Plug and Play Drive Interface cables
Delta Interface Cable $148 (#13131)
Estun Interface Cable $148 (#13132)
Yaskawa Interface Cable $148 (#13134)
"Flying lead" cable for connection to other drives $105 (#13133)

Console, Display, & Cabinet opt. mounting hardware
Conduit and Cable package* for console w/ CNCPC **$405** (#11028)
Conduit and Cable package* for console w/o CNCPC** **$465** (#13150)
Custom Length Console Cable for Conduit over 6ft add **$28.50/ft**
Console mounting arm kit **$463** (#13933)
Console to Arm mounting hardware(use w/ your arm)**$139** (#13932)
Rolling floor stand **$595** (#10512)
Related Hardware and Cable kits
M39 style Display/keyboard tray with arm **$475** (#10240)
Operators Pendant mounting hardware **$76** (#10491)
MPG internal cable 20' w/bulkhead con. **$125** (#11086)
Probe internal cable 6' w/bulkhead con. **$50** (#11085)
Operators control panel internal cable 20' **$50** (#11029)
OEM/DIY console cable connector set **$35** (#13138)

* Preassembled, standard length: 6 ft. of conduit combined with 16' of cable.
** 16' limit on USB cables when CNCPC is not mounted in console

Effective 12-4-15

The OAK board set includes the motion control card built in.
The OAK card has 9 relay outputs and 16 inputs
The DC voltage used for inputs can vary from 5VDC, 12VDC, 24VDC. These inputs are grouped in groups of 4 so you can vary the voltage or change the common polarity for 4 inputs at a time.

Need additional I.O. ? There are plug in boards to provide as much as you require.

Servo control is formatted in position mode specifically for the Yaskawa Sigma2, 5, or 7 and the Delta drive/motor sets. Comunications cables are built to plug and play directly between the OAK board and the servo drive CN1 port. This board is built to match the high performance of these high end servo drives.

The standard PLC programming that comes with your CNC software has the following features already configured.
4 axis of servo motion
VFD programmable spindle speed control
Spindle encoder input
Autolube pump and float sensor
flood and mist coolant
Monitors + & - axis limit inputs

Many other PLC configurations exist. If you require something special for your machine, just ask.