

# Board Level CNC Control, MPU11 w/CENTROID AC/DC Servo drive

Motion Controller, Drive Interface, and PLC (MPU11 & GPIO4D for use with AC/DC drive Up to 8 Axes)

Starting at **\$2345** with CENTROID Mill or Lathe software

Machines in Motion, inc.  
<http://machinesinmotion.com>  
 Toll free (877)733-5500

### CNC PC choices: Your Windows 7 or 8 PC



OR:  
**Our All-in-One PC \$1200** (11084tb)

Ethernet  
 Cable to PC

OR:  
**Our CNC PC \$1175 cabinet mount** (#11084) & your display



OR:  
**Our CNC console \$3350** (#11082)

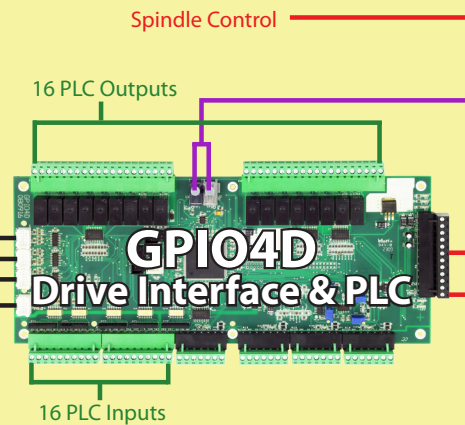


Panel Mount console **\$2675** (#11170)  
 Touch screen option **\$495** (#12568)

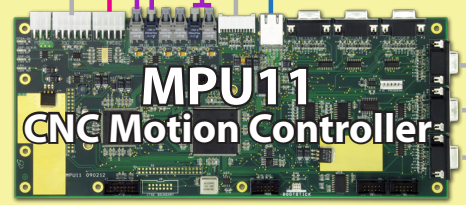
Optional Operator's Control Panel **\$765** (#11077)



Optional Manual Pulse Generator (MPG) **\$495** (#11069)

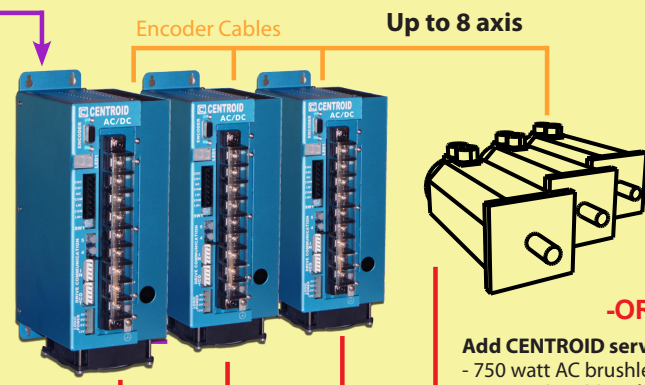


Base Kit Includes:  
**MPU11 & GPIO4D \$2345**  
 with CENTROID Mill or Lathe CNC Software (#11022)



Additional Encoders or Scales

Fiber Optic Cables (Included)



**-OR-**  
**Add CENTROID servos w/encoders**  
 - 750 watt AC brushless **\$1060** ea. (#10690)  
 - 1Kw AC brushless **\$1305** ea. (#10555)  
 - 2Kw AC brushless **\$1910** ea. (10557)  
 - 3Kw AC brushless **\$2400** ea. (#10804)  
 - 4Kw AC brushless **\$2740** ea. (#10806)  
 Add cable for 1Kw & 2Kw **\$325** (up to 20')  
 Add cable for 3Kw & 4Kw **\$375** (up to 20')

**CENTROID AC/DC servo drives**  
 30 amp AC/DC-30 \$1285 each (#12854)  
 60 amp AC/DC-60 \$1380 each (#12855)

Note: Run AC brushless servo motors **or** DC brush servo motors with the CENTROID AC/DC servo drive

- 16 in-lb DC w/ cable **\$1275** each (#10667)\*\*  
 - 29 in-lb DC w/cable **\$1279** each (#10816)\*\*  
 - 40 in-lb DC w/cable **\$1390** each (#10935)\*\*  
 - Cable lengths over 16ft (4.8m): **+\$7/ft**  
 - 40 in-lb w/brake also available, call for \$

### Optional PLC I/O Expansion Boards

Add more I/O, up to 4 in any combination for up to 272 In / 272Out

**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)

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



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

### Console, Display, & Cabinet opt. mounting hardware

- Console ext. cable in conduit (6 ft) **\$395** (#11028)
- Console cable in conduit (over 6ft) **\$28.50/ft** (#11028)
- Console mounting arm **\$299** (#10636)
- Console swivel mount (use w/ your arm) **\$125** (#10834)
- Rolling cabinet stand and display tray **\$595** (#10512)
- Rolling console stand **\$575** (#10695)
- 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)

Effective 3-14-15



# CENTROID

Machines in Motion, inc.  
http://machinesinmotion.com  
toll free (877) 733-5500

## OAK Board: Single board CNC Controller

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:

**Your Windows 7/8 PC**  
\*must meet minimum performance requirements, you install software.



**OR:**  
**Our All-in-One PC**  
**\$1200** (11084tb)  
(factory installed software)

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



**OR:**  
**Our CNC console**  
**\$3350** (#11082)  
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Touch screen option **\$495** (#12568)



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64 Inputs 5V non isolated  
64 Outputs Open Collector  
**\$1300** (#11212)

### CENTROID Servo Drive Interface

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

Add up to 4 additional axes, **up to 8 axes total**



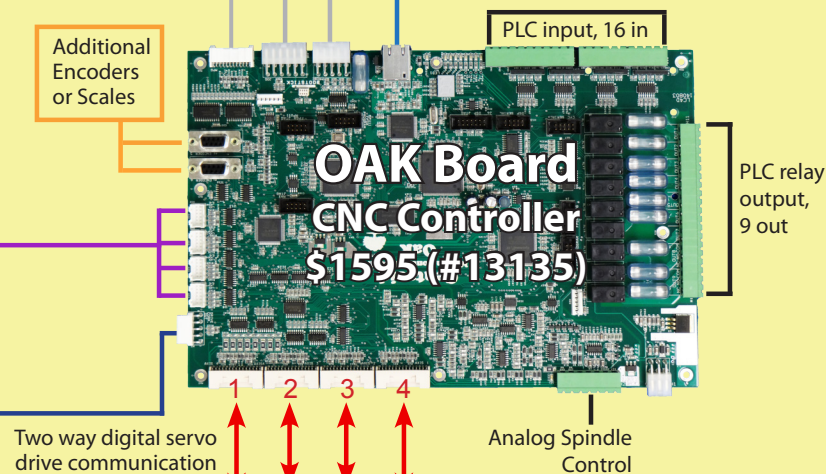
**CENTROID AC/DC servo drive**  
30 amp AC/DC-30 \$1370 each (#12854)  
60 amp AC/DC-60 \$1490 each (#12855)

**CENTROID DC1 servo drive**  
**\$585** each (#11112)



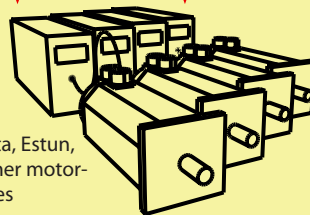
**CENTROID OpticDirect drive interface**  
**\$450** (#12554)

**CENTROID Encoder Expansion Board**  
**\$395** (#13085)



**OAK Board**  
**CNC Controller**  
**\$1595 (#13135)**

Two way digital servo drive communication



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

Analog Spindle Control

### 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)

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