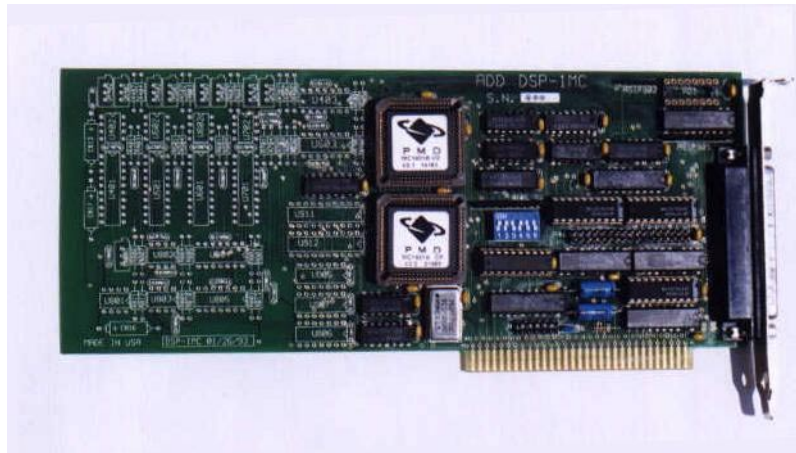


## DSP- 4 PWM 4 AXIS SERVO CONTROL FOR THE PC



### FEATURES

- o 4 FULLY INDEPENDENT AXES
- o ISA BUS COMPATIBLE CONTROLLER
- o 32 BIT POSITION ,VELOCITY AND ACCELERATION REGISTERS
- o CHOICE OF 3 INDEPENDENT PROFILE MODES-  
TRAPEZOIDAL,VELOCITY  
CONTOURING AND S- CURVE
- o ELECTRONIC GEARING 2 AXES
- o PID FILTER MODE
- o POSITION AND VELOCITY READS ON THE FLY
- o CHANGE FILTER AND PROFILE PARAMETERS ON THE FLY WITH  
PRELOAD
- o INCREMENTAL ENCODER INPUTS TO 1 MHz WITH INDEX
- o PWM MOTOR OUTPUT
- o AUTO SHUTDOWN ON ERROR
- o MULTI-AXIS UPDATING FOR MULTI-AXIS SYNCHRONIZATION
- o AUTO MOTION UPDATING ON BREAKPOINT
- o 16 BITS OF USER PROGRAMMABLE INPUT
- o 16 BITS OF USER PROGRAMMABLE OUTPUT
- o **FULL FEATURED CNC SOFTWARE PACKAGE AVAILABLE**

## **JRA**

The DSP-1MCPWM motion controller utilizes an advanced DSP DC servo controller chipset. The board is installed in a standard PC and occupies one ISA slot. The controller is capable of providing precise 4 axis motion control for a variety of applications. Time intensive motion control computations are easily handled by the DSP chipset freeing the host computer to perform other tasks.

The included exerciser software is written in C and allows the programmer to become familiar with chipset communication and commands. **For plug and play CNC applications, a comprehensive CNC software package is also available.**

Feedback for the controller is provided by two or three channel quadrature incremental optical encoders. Optional opto- isolated line drivers are also available for long cable runs and or electrically noisy environments. Connections to external hardware are made via an integral db37 female connector. **Complete plug and play systems including amplifiers, motors, power supplies and software are available from JRA.** These systems provide high performance cost effective retrofits for machine tools, CNC routers and custom machinery.

### **PRICING**

**3/99**

<b>DSP-1MCPWM 4 AXIS DSP SERVO CNTRLR</b>	<b>650.00</b>
<b>CNC MOTION CONTROL SOFTWARE</b>	<b>600.00</b>

### **PWM AMPLIFIERS**

<b>PWMAMP-3</b>	<b>3 AMP CONTINUOUS</b>	<b>24-48VDC</b>	<b>100.00</b>
	<b>PWM AMPLIFIER</b>		
<b>PWMAMP 6</b>	<b>6 AMP CONTINUOUS</b>	<b>24-48VDC</b>	<b>350.00</b>
	<b>PWM AMPLIFIER</b>		

**LARGER AMPLIFIERS AVAILABLE PLEASE CALL !!!!!**

**SERVO MOTORS**

**SERVOMO-1** **135.00**

30.3 VDC BRUSH TYPE PMDC MOTOR WITH  
INTEGRAL 500 LINE HP OPTICAL ENCODER

STALL TORQUE	106 OZIN
STALL CURRENT	11 AMPS
NO LOAD SPEED	3100 RPM
SIZE	4" x 2.125 DIA 1/4" DIA SHAFT

**SERVOMO-2** **150.00**

30.3 VDC BRUSH TYPE PMDC GEARMTR WITH  
INTEGRAL 500 LINE HP OPTICAL ENCODER

GEAR RATIO	218:1
MAX TORQUE	175 OZIN
STALL CURRENT	4.8 AMPS
NO LOAD SPEED	28 RPM
SIZE	4" x 2.125 DIA 1/4" DIA SHAFT WITH FLAT

**SERVOMO-3** **135.00**

24 VDC BRUSH TYPE PMDC GEARMTR WITH  
INTEGRAL 500 LINE HP OPTICAL ENCODER

GEAR RATIO	5.9:1
MAX TORQUE	175 OZIN
STALL CURRENT	8 AMPS
NO LOAD SPEED	1043 RPM
SIZE	4" x 2.125 DIA 1/4" DIA SHAFT WITH FLAT

\* ALL MOTORS SUBJECT TO AVAILABILITY  
LARGER MOTORS ALSO AVAILABLE . PLEASE CALL

***JRA***

**OPTO LINE DRIVERS** **150.00**  
4 TRANSMITTERS AND QUAD RECEIVER CARD FOR  
LONG CABLE RUNS OR NOISY ENVIRONMENTS

**BREAKOUT BOARD** **75.00**  
ALLOWS PLUG AND PLAY CONNECTIONS FROM SERVO  
CONTROLLER TO AMPS AND ENCODERS

**PWR SUPPLY** **100.00**  
30 VDC 6A LINEAR PWR SUPPLY FOR ABOVE SYSTEMS

**ALSO AVAILABLE FROM JRA**

- o I/O CARDS AND ACCESSORIES
- o SOLID STATE RELAY CARDS
- o 2 AXIS SERVO CONTROLLERS
- o 3 AXIS CNC STEPPING MOTOR SYSTEMS
- READY TO RUN 3 AXIS SERVO SYS
- 3 AXIS DESKTOP MILLING MACHINES

**COD AND PREPAID ORDERS ACCEPTED**

**MAKE CHECKS PAYABLE TO : *JRA***