

**MAX2000™**

## MAX2000™

### Simplifying Your Motion Control.

The MAX 2000™ integrates multi-axis motion control with high performance servo amplifiers in a compact, easy to use, cost-effective package. Our product enables machine designs and automation systems to stand out in the market by maximizing performance and reliability while minimizing space and cost.

The MAX 2000™ was designed with direct drive technology in mind: a combination of high bandwidth electronics for high-resolution encoders and a robust compensator for increase system performance. The compact size of today's direct drive motors goes hand in hand with the compact size and capabilities of the MAX 2000™ platform.

### Key Features

- ❖ S-curve and Trapezoidal commutation
- ❖ Data logging
- ❖ Position capture
- ❖ 1/t Velocity control
- ❖ Jogging
- ❖ 3 axes of DSP based motion control
- ❖ PID with velocity, acceleration & jerk feed forward
- ❖ 4kHz position
- ❖ 20kHz current loop
- ❖ Support for all types of brushed and brushless servo motors
- ❖ 3 high-current brake outputs
- ❖ Communication via RS-232
- ❖ Small form factor for placement in tight spaces or next to motors

### Product Benefits

- ❖ Reduction in cabling up to 50%
- ❖ Increased reliability
- ❖ Decreased cabling cost
- ❖ Increases performance
- ❖ Common interface for all types of motors

### Applications

- ❖ Industrial Robotics
- ❖ Printed circuit board Assembly Equipment
- ❖ Lab Automation
- ❖ Semiconductor Process Tools
- ❖ Semi Fab Automation
- ❖ Packaging Equipment

### Verticals

- ❖ Life Science
- ❖ Semiconductor
- ❖ Automation
- ❖ Photonics
- ❖ Automotive



## Application Software

- MAXWin™ tuning tools with graphical analysis, data logging and frequency analysis

## Software Tools

- MAXVcLib ANSI C Library

## Product Specification

Product	MAX2000	MAX2000
Part Number	10-2030-01	10-2030-02
Amplifiers	3	3
Amplifier Options	3 x 12A (Peak)	3 x 3A (Peak)
Motor Voltage	85V Max	85V Max
Logic Voltage	12V Min—28V	12V Min—28V
Network	Serial (RS232)	Serial (RS232)

## Part Number System

Example: 10-2031-01

Description: 3 Axis Serial MAX2000 with 3 amplifiers setup at 85V 12A

10	Product Class	10— Controller Only, 11—Evaluation Kit
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2	Series Type	2—MAX2000
0	Custom	0— Standard
3	Number of Axis	3—3 Axis
0	Network Type	0—RS232
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01	Amplifier Type	1 = 85V, 12A, 2 = 85V, 3A

## Accessories

Product	Part Number
MAX2000 Cable Kit	18-0002
MAX2000 Cable Kit	18-0001
MAXWin Application Software	35-0002
MAXVcLib Motion Library	35-0007
MAX2000 Getting Started Guide	34-0007
MAX2000 Evaluation Kit - 85V, 12A Amplifier Configurations	11-2030-01
MAX2000 Evaluation Kit - 85V, 3A Amplifier Configurations	11-2030-02