

**MAX3000™**

MAX3000™

Performance and flexibility for demanding motion control applications.

The MAX 3000™ integrates multi axis motion control with high performance servo/stepper amplifiers.

The MAX 3000™ wraps a high performance Digital Signal Processing engine around Agile Systems core digital power block technology and a high-speed digital network. This provides a compact distributed motion control solution.

Key Features

- 2-4 axes of high performance digital signal processing based control, digital power block technology
- Supports: FireWire b®, Ethernet, RS232/485/422
- Commutation Method – Sinusoidal
- Trajectory Profiles – S-curve and trapezoidal
- Performance Options – PVT, PT set-point streaming, PTP
- Motors supported – Brushed, Brushless, stepper and voice coil motors
- Encoder support – quadrature, serial encoders
- Amplifier – 1 to 15 amps at 90 VDC
- Opto Inputs 4-16
- Differential Inputs 2-4
- Analog Inputs 2-4
- Opto Outputs 2-4

Product Benefits

- Up to 50% reduction of cabling
- Increased reliability
- On-board programming [off-loads host processing]
- Compact design [eliminates costly external panel]
- Advanced PID loop [increased performance]
- Common interface for various motor types

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

- DP·Win™ tuning tools with graphical analysis, data logging, frequency analysis and programming

Software Tools

- MaxCLib ANSI C Library

Product Specification

Product	MAX3020	MAX3030	MAX3040
Part Number	10-302X-XX00	10-303X-XXX0	10-304X-XXXX
Amplifiers	2	3	4
Amplifier Options	1A, 3A, 5A, 15A (Peak)	1A, 3A, 5A, 15A (Peak)	1A, 3A, 5A, 15A (Peak)
Motor Voltage	90V Max	90V Max	90V Max
Logic Voltage	12V Min—28V Max	12V Min—28V Max	12V Min—28V Max
Network	Serial (RS232/485/422), Firewire B CAT5, Ethernet	Serial (RS232/485/422), Firewire BCAT5, Ethernet	Serial (RS232/485/422), Firewire BCAT5, Ethernet

Part Number System

Example: 10-3041-1111

Description: 4 Axis FireWire MAX3040 with all four axes configured with 90V 15A

10	Product Class	10- Controller Only, 11-Evaluation Kit
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3	Series Type	3-MAX3000
0	Custom	0- Standard, 1- Custom
4	Number of Axis	2-2 Axis, 3-3 Axis, 4-4 Axis
1	Network Type	0-RS232/RS485, 1-Firewire, 2-Ethernet
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1	Axis 1 Amplifier Type	1 = 90V, 15A, 2 = 90V, 5A, 3 = 90V, 3A, 4 = 90V, 1A
1	Axis 2 Amplifier Type	1 = 90V, 15A, 2 = 90V, 5A, 3 = 90V, 3A, 4 = 90V, 1A
1	Axis 3 Amplifier Type	1 = 90V, 15A, 2 = 90V, 5A, 3 = 90V, 3A, 4 = 90V, 1A
1	Axis 4 Amplifier Type	1 = 90V, 15A, 2 = 90V, 5A, 3 = 90V, 3A, 4 = 90V, 1A

Accessories

Product	Part Number
MAX3020 Cable Kit	18-0014
MAX3030 Cable Kit	18-0011
MAX3040 Cable Kit	18-0007
MAX3020 Connector Kit	18-0015
MAX3030 Connector Kit	18-0012
MAX3040 Connector Kit	18-0003
Firewire B CAT5 Cross Over Cable	40-0079
Ethernet CAT5 Cable	40-0086
DP·Win Application Software	35-0029
MAXCLib Motion Library	35-0004
MAX3000 Getting Started Guide	34-0004
MAX3040, 15A Amplifier	11-3041-1111
MAX3040, 3A Amplifier	11-3041-3333