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Data Sheet

August 15, 2026

DANAHER MOTION / SUPERIOR ELECTRIC

Danaher Motion / Superior Electric SLO-SYN MX2000 32-Bit DSP Controller

Axis Class: axis count on the MX2000 sheet Step Rate Class: steps per second on the MX2000 sheet Io Class: digital I/O on the MX2000 sheet Host Interface Class: serial/bus on the MX2000 sheet Step Rate Class: steps per second on the MX2000 sheet Io Class: digital I/O on the MX2000 sheet Host Interface Class: serial/bus on the MX2000 sheet Motor Class: SLO-SYN stepper / related servo



MODEL

**Danaher Motion /
Superior Electric
MX2000**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MX2000

LISTING

[https://aumictechlabs.c
om/products/mx2000-
2/](https://aumictechlabs.com/products/mx2000-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Danaher Motion / Superior Electric SLO-SYN MX2000 is a 32-bit DSP controller built for motion control in industrial automation systems. It simultaneously manages up to 8 step motor or servo axes with 7 concurrent tasks, delivering fully coordinated motion including linear and circular interpolation. The controller integrates a Texas Instruments TMS320C31 32-bit DSP operating at 33 MHz with 256 Kbytes of memory, interfacing with all SLO-SYN step motor drives up to 50,000 micro-steps per revolution and any analog or digital servo amplifier. Technical Specifications Processor: Texas Instruments TMS320C31 32-bit DSP, 33 MHz Memory: 256

Kbytes Simultaneous Axes: Up to 8 step motor or servo axes Concurrent Tasks: 7 maximum
Micro-stepping: Compatible to 50,000 micro-steps per revolution Analog Output: ± 10 VDC Digital I/O (Standard): 24 optically isolated and filtered inputs; 16 short-circuit proof outputs (switch-selectable sinking or sourcing) Serial Ports: Two ports with switch-selectable RS232/RS485 (host port) and factory-set RS232/jumper-configurable RS485 (auxiliary port) Baud Rates: Host port 4800, 9600, 19.2K, or 38.4K bps (switch-selectable); auxiliary port 9600 bps factory-set, software adjustable to 38.4 Kbaud Key Features Full coordinated motion control with linear and circular interpolation and splining Windows-based BASIC-like programming language with nested subroutines (16 levels) and looping Complete math function library Flash memory for program storage Comprehensive system parameter setup screens Optionally expand I/O with dedicated digital input/output boards or OPTO-22 style boards via two 50-pin headers (up to 48 additional I/O points) Typical Applications Multi-axis industrial machine control systems Coordinated step motor and servo drive automation Complex motion sequencing requiring concurrent task execution Compatibility & Integration The MX2000 interfaces with all SLO-SYN step motor drives and analog/digital servo amplifiers. Dual serial ports support RS232 and RS485 communication protocols at configurable baud rates, enabling integration into networked automation environments.

MX2000 Characteristics / Specifications

PARAMETER	VALUE
Model	MX2000
Instrument Type	32-bit DSP motion controller
Family	Superior Electric SLO-SYN MX2000
Cpu Class	32-bit DSP
Manufacturer	Superior Electric / Danaher Motion
Literature	SLO-SYN MX2000 32-bit DSP controller listings
System Role	stepper/servo motion indexer-controller
Axis Class	axis count on the MX2000 sheet
Step Rate Class	steps per second on the MX2000 sheet
Io Class	digital I/O on the MX2000 sheet
Host Interface Class	serial/bus on the MX2000 sheet
Motor Class	SLO-SYN stepper / related servo
Operating Temperature Class	cabinet ambient on the sheet
Form Factor	rack/panel motion controller
Brand Lineage	Superior Electric / Danaher Motion
Documentation Type	MX2000 listing
Ate Class	DSP motion controller
Host Class	PLC/PC motion host
Year Class	MX2000
Use Case	SLO-SYN axis control
Program Class	stored motion programs (sheet)
Encoder Class	encoder feedback if equipped (sheet)
Power Class	logic/mains on the MX2000 sheet
Related Amplifiers	GA6520 / ROL-20012 / SERVOSTAR siblings
Module Class	DSP indexer

PARAMETER	VALUE
Language Class	MX2000 motion language (sheet)
Operating temperature	Class: cabinet ambient on the sheet

MX2000 Specifications

PARAMETER	VALUE
Applications	32-bit DSP motion control of SLO-SYN stepper and related axes in automation.
Key Features	SLO-SYN MX2000 32-bit DSP controller
Technical Specifications	Model: MX2000

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: cabinet ambient on the sheet
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Module Class	DSP indexer
Language Class	MX2000 motion language (sheet) Notes From Superior Electric SLO-SYN MX2000 32-bit DSP controller listings. Step rate, axes, and I/O counts are on the MX2000 data sheet; do not invent them.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.