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TECHNOLOGY GROUP

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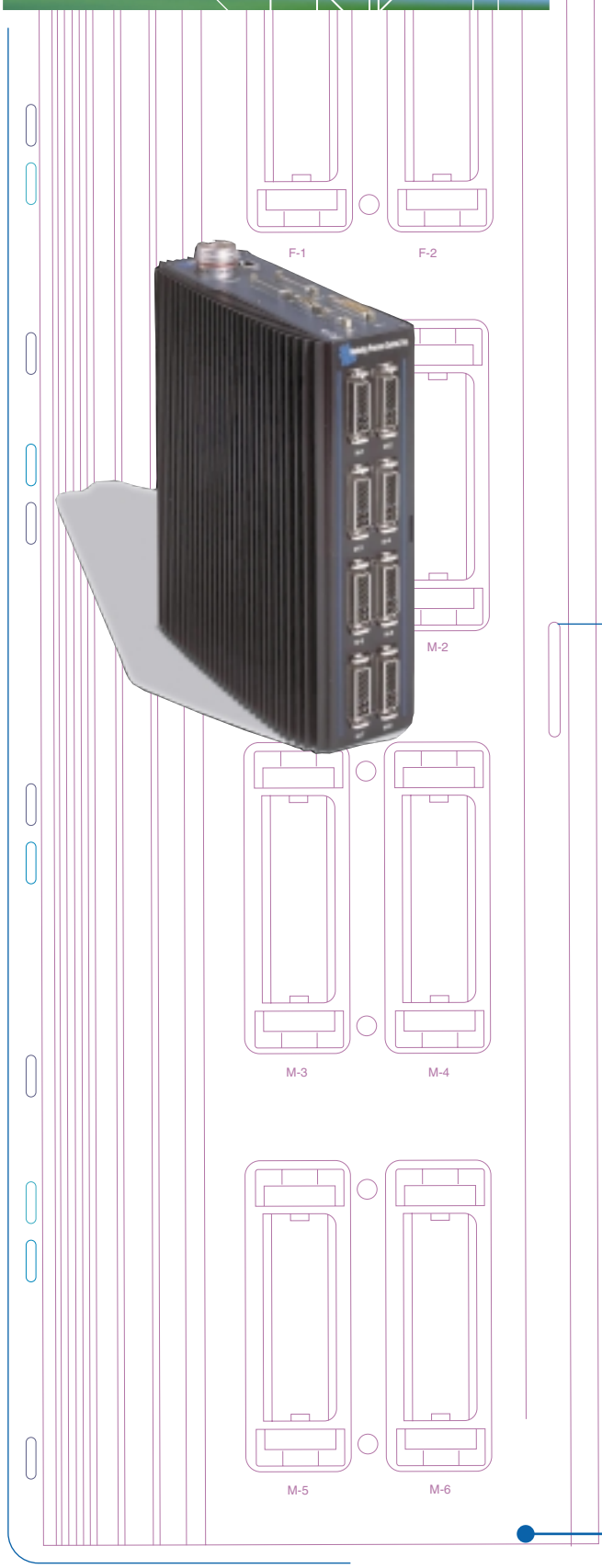
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Berkeley Process Control, Inc.
Your Assurance of Automation Success™



BX*i*™

Motion and Machine Controller

The BX*i* is an integrated motion and machine controller with internally powered servo drives. It features an expandable 100 Mbit Ethernet I/O system, scalable serial ports, and an object-based development environment. The BX*i* provides full *system-centric* machine control including control of servomotors, multi-axis robots, slides, notch aligners, and pod door openers. By unifying the control of the entire machine or module, the BX*i* maximizes throughput and reliability while minimizing total system cost and integration effort.

FEATURES

AUTOCALIBRATION® TECHNOLOGY — Eliminates time consuming robot teaching and lengthy robot replacement times. Using a variety of application specific methos, Autocalibration technology allows a robot to precisely locate tool points without the need for operator assistance.

CASSETTE MAPPING — The built-in BX*i* mapping algorithm can inventory wafers while also detecting cross slotted and double slotted wafers.

PREDICTIVE MAINTENANCE — Minimizes unscheduled downtime. Controller monitors machine mechanism calibration values and process loop performance, indicating in advance when machine maintenance should be scheduled.

e-DIAGNOSTICS — Enables remote monitoring, troubleshooting and data logging of an entire machine via a corporate intranet, or the internet. Allows for easy integration of information into enterprise software.

MODULAR SOFTWARE DEVELOPMENT — The BX*i* features a sophisticated development environment that reduces new software development by 95%. Typical semiconductor objects including robots, notch aligners, wafer cassettes and pod door openers are modeled in the BX*i* development environment, reducing the software effort to mainly application configuration and scheduling.

INTEGRATED PRE-ALIGNER — The BX*i* is plug and play compatible with Berkeley's BXpa integrated pre-aligner.

SCALE 1:2

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SPECIFICATIONS

Controller Performance

- 64bit RISC processor
- Multitasking of servo control
- Expandable to 56 axes with networked controllers
- Internally powered servo axes, 80VDC, 5A cont, 10A peak

Controller Models

- 8 axis control/6 Internal Drives
- 6 axis control/4 Internal Drives
- 4 axis control/2 Internal Drives
- 8 axis control/0 Internal Drives
- 4 axis control/0 Internal Drives

Motion Control Features

- Point-to-point motion profile
- Trapezoidal & S-Curve Motion profiles
- Master/Slave axis control
- Auto tuning of servo & PID loops
- Torque, speed & position control
- General PID loop control
- Programmable Limit Switch

Internal Inputs/Outputs

- 14 Digital outputs, 24VDC configurable
- 32 Digital inputs, 24VDC configurable
- Pre-integrated E-stop circuit
- Pre-integrated drive power interrupt circuit
- Fully connectorized to reduce point-to-point wiring
- Fully expandable via BX*i*/o Ethernet modules

Connectivity

- 100MB OpenLink™ Ethernet Network
- Multi controller network - standard
- Windows NT interface
- SECSII/GEM
- Accessories:
  - Ethernet hub 4/8 Ch
  - Serial port module 2/4 Ch

Environmental

- Operating temp, 0-40°C
- 0-95% humidity, non-condensing
- Fully CE certified
- Passive cooling – standard
- Fan module – option

Power

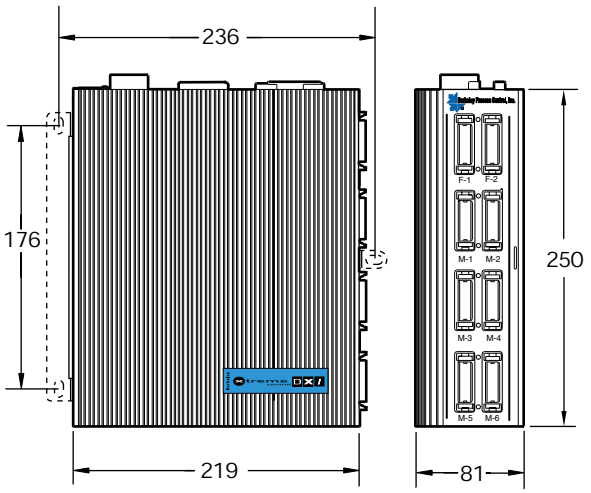
- 120-240VAC/1ph, 208/480 VAC 3ph
- Internal 24VDC optional power supply

Physical

- 250mm x 219mm x 81mm (9.8" x 8.6" x 3.2")
- Weight: 5kg (11lbs)
- Panel mount, back or side

Approvals

- UL
- CE
- S2-93A – option



Berkeley Process Control, Inc.
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Corporate/USA Headquarters

1003 Canal Boulevard
Richmond, California 94804
tel 510.236.3333
fax 510.236.1186
www.berkeleyprocess.com
e-mail marketing@berkeleyprocess.com

European Headquarters

tel +44 (0)1904 435 138
e-mail info.eu@berkeleyprocess.com

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