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Find the *ABB / Baldor NextMove PC* at our website: ***Click HERE***

NextMove PC

high performance PC-bus motion controller

BALDOR MOTORS AND DRIVES



2 to 8 axis servo/stepper control

Fast 32 bit floating point DSP

MINT or 'C' programming

CAN for distributed control

- ISA PC bus plug-in card
- 512k RAM
- Onboard digital & analog I/O
- Fast input for position capture
- 24 digital inputs, 12 digital inputs
- EMC compliant - High reliability design

CE

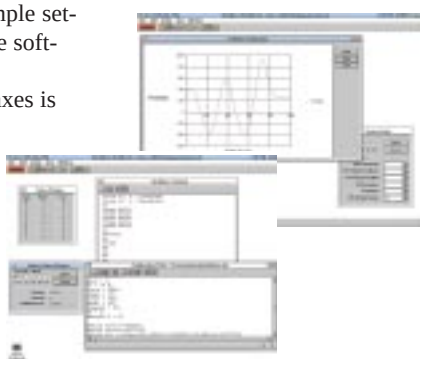
The NextMove range adds 32-bit Floating Point DSP power to motion control systems. NextMove PC provides servo and stepper control for the ISA PC/AT bus. It provides high speed interpolation of up to 8 axes, features digital and analog I/O for use in the most demanding process based applications and works with CAN based I/O, MMI and CAN-based direct digital drives. Unlike fixed point DSP controllers, NextMove PC deals accurately with real-world problems in real time. Other functions include software gearbox, cam and flying shear following and a high speed position latch for precise product registration.

Applications include high speed printing, packaging and machine tools. NextMove PC also suits other common automation problems including robotics, rotary knives and X-Y systems.

MINT harnesses full controller power

MINT is a structured high-level motion control language that is easy to read, fast, and reliable. It has motion specific keywords and commands for motion control and I/O. Single commands generate complex motions, for example setting up master/slave systems like software cams and flying shears. Interpolation between multiple axes is also available.

- Fast time to market
- Quick retooling for short runs
- 16/32-bit Windows 95/NT support
- Windows programming/development



Rapid code development for complex motion profiles is simplified by MINT's library

CAN distributes control

By distributing intelligence across a machine, CAN replaces expensive and failure-prone wiring looms by a single twisted pair cable plus power. Complete sub-systems may be added without major wiring changes. CAN also minimizes life-cycle costs by improving fault self-diagnosis and cutting downtime.

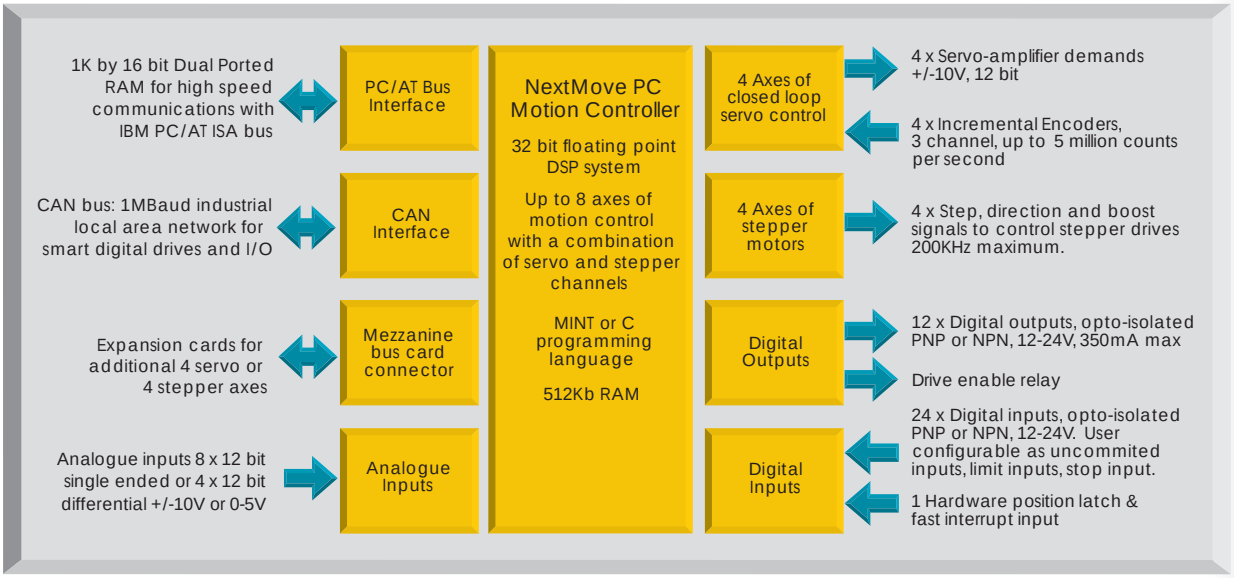
- Real-time distributed control
- Dramatically reduces wiring
- 1-Mbit/s high-integrity links
- Open industry standard
- CANopen & DeviceNet protocol support
- Flexible and modular systems
- Suits I/O expansion

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NextMove PC

Technical Specifications

- 2, 3 or 4 servo control axes with PIDVF servo loop (250µsec update rate), 12 bit +/-10V analog demand and incremental encoder feedback up to 5 million counts per second. This may be expanded to 8 axes using the optional expansion card. The expansion card also provides an additional master encoder input for software gearbox applications.
- 4 axes of stepper motor control with open-collector step and direction outputs to stepper motor amplifiers. This may be expanded to 8 axes using the optional expansion card.
- 24 opto-isolated inputs, 12-24V. All inputs are level or edge triggered and user configurable as limit, home, stop and error inputs. PNP or NPN options are available.
- 12 opto-isolated outputs, 12-24V, 350mA max. All outputs are configurable as drive enable or error output. PNP and NPN options are available.
- 1 fast interrupt input provides an accurate snap-shot for registration applications. The input will latch the position of all axes on the controller. Response time is 25µsec.
- For joystick control or interfacing to sensors, 8 x 12 bit single ended or 4 x 12 bit differential ±10V, ±5V, 0-10V or 0-5V analog inputs are provided.
- 1 channel of CANbus is provided and may be used to support up to 63 CAN devices which include input and output modules, keypad and other intelligent servo and stepper drives from the Baldor Optimised Control range, (see separate data sheets).
- 512K RAM is provided for program and data storage. Firmware can be downloaded from the PC via the ISA bus.
- Interfacing is via a 100 way high density EMC shielded D-type connector. This may be connected to an optional breakout unit using a shielded cable.
- An optional breakout unit is housed in a compact DIN-rail mounting module. This provides 5mm pitch screw terminals for I/O and D-type connectors for encoders.
- Dimensions: full-length 16-bit PC/AT card, 345mm x 120mm, weight 305g.
- Power is supplied from the PC/AT bus. A user power supply, 12-24V at up to 850mA is required for the opto-isolated outputs. The unit is CE compliant for the EMC Directive.



Ordering information

Description	Code
NextMove PC, 4 axes stepper	NMP003-502
NextMove PC, 2 axes servo	NMP003-506
NextMove PC, 3 axes servo	NMP003-510
NextMove PC, 4 axes servo	NMP003-514
NextMove PC, 4 servo & 4 stepper	NMP003-518
OPTIONS	
NextMove breakout unit	NMP004-501
NextMove cable - 1 metre	CBL005-501
NextMove cable - 1.5 metre	CBL005-502
NextMove cable - 3 metre	CBL005-503
4 axes servo/stepper expansion board	OPT009-501
4 axes stepper expansion board	OPT011-501
Expansion breakout board	OPT010-501
Expansion cable 1metre	CBL006-501
Expansion cable 2metre	CBL006-502
Encoder splitter board	OPT008-501
MANUALS	
NextMove PC controller manual.	MAN009-501

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BALDOR MOTORS AND DRIVES

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