

# ABB motion control products

## e100 Mint<sup>®</sup> programmable motion drives

Mint Lite offers the multitasking language power of our Mint motion controllers in a single axis form. This is offered as standard on all e100 drives, free of charge or license fees.

Develop your own solutions to machine tasks ranging from simple guides and back-gauge axes to more complex applications requiring high speed indexing or registration control.

Combine with a drive family that offers advanced motor control. Ethernet communications, CANopen expansion and Mint Lite provides capability beyond that of standard indexing drive solutions.



### Mint Lite features and benefits

- Integrated in e100 drives as standard
- Free of charge and no runtime licence required
- Includes Mint Workbench and Mint ActiveX components
- High-level programming language
- Multi-tasking for a more deterministic, responsive operation and structured programming
- EVENTS provide programmable response to critical functions such as input state changes, communications, position registration and error handling
- User defined subroutines, functions and variable names

### e100 drives and Mint Lite provide

- Ethernet for a networked solution
- CANopen distributed I/O expansion
- 2 high speed latch inputs capable of capturing a position in 1µs
- Choice of 105 to 230 V AC and 180 to 528 V AC units with common software and configuration
- Simplified commissioning and serial manufacture through the use of digital drives and single point of access via Ethernet
- Compact solution, requiring less panel space and wiring

### MotiFlex e100 additional features

- PLC control via plug-in fieldbus modules
- Dual feedback or electronic gearing using feedback option cards
- Coordinated motion with plug-in motion controller
- DC bus energy sharing





### e100 family of real-time Ethernet control products

The NextMove e100 is a powerful motion controller which integrates management of a real-time Ethernet network of drives, I/O devices, sensors and absolute encoders. Combined with MotiFlex e100 and MicroFlex e100 drives, e100 products greatly simplify system design and installation while providing high performance control.



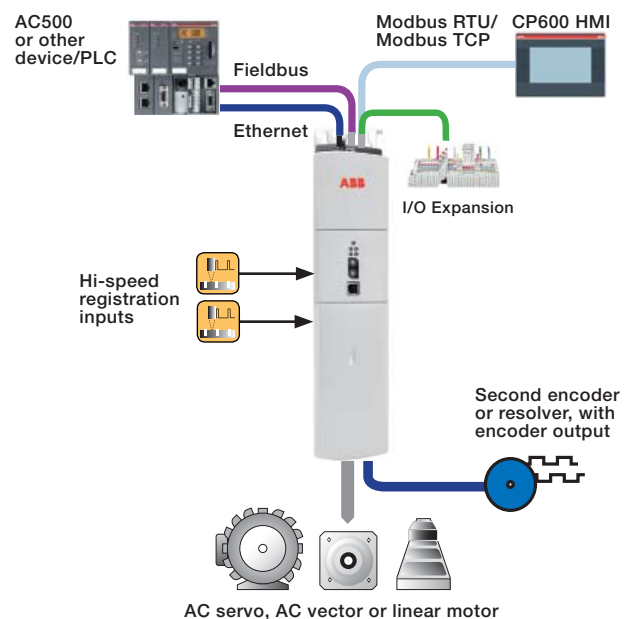
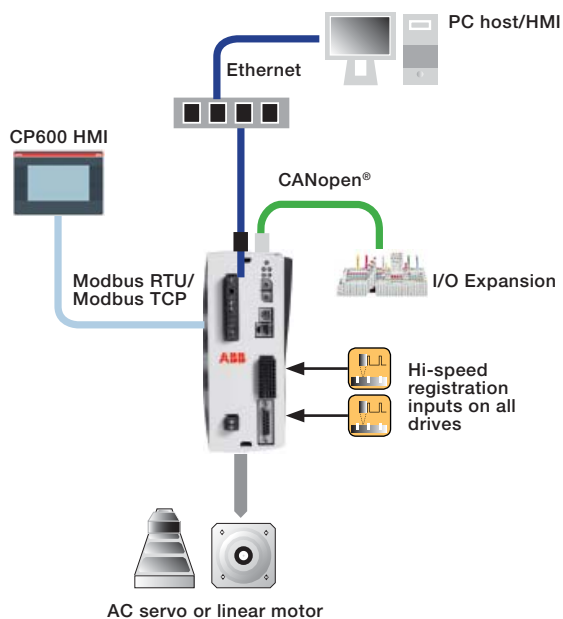
### PC tool offers simple and intuitive commissioning

Mint Workbench PC tool offers fast and simple setup, commissioning and monitoring in a single software tool. In addition to a step-by-step configuration wizard, oscilloscope graphing, parameter view/edit/compare it also includes motion programming, integrated help and a tool to package a single concise email to streamline technical support when you need it.



### Motion technology fully integrated

MotiFlex e100 and MicroFlex e100 drives can be used as stand-alone single axis machine controllers. They are fully programmable in Mint with Ethernet connectivity combined with on board I/O and serial port for a simple HMI interface. Altogether a very cost competitive solution to simple single axis applications requiring cut to length, infeed control, or port-to-port positioning.



### Intelligent drives

Mint Lite transforms the Ethernet ready MicroFlex and MotiFlex e100 drives, into powerful intelligent drive systems. They assume complete control of the drive on-board I/O, communications, and Ethernet networking features, offering the potential for significant cost savings in indexing drive applications. Modbus TCP and RAW Ethernet (application specific) protocols are supported.

For more information please contact your local ABB representative or visit:

[www.abb.com/motion](http://www.abb.com/motion)  
[www.abb.com/drives](http://www.abb.com/drives)  
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