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OmniCore™ Controllers

A new era of digital robot control to increase flexibility, reliability and performance

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New ABB OmniCore™ robot controller family offers broadest motion control options, more tailored solutions for the connected “Factory of the Future”

OmniCore™ Controllers

Introducing a new era of flexible, digital robot control

The best made even better

- The first offering from ABB's new era of flexible, intelligent and tailored solutions
- A impressive range of controllers to deliver the ideal solution for every need.
- Designed for the rigorous performance and reliability needed to support 24/7 production of high-mix, low-volume products in shorter product cycles
- Significant size reduction for installation space savings.
- With the same superior precision, cycle times and speed that ABB is renowned for the new controllers can tackle the toughest challenges.



Fast time to market



Smaller



High throughput

The new controller family



OmniCore™ Small Robot Controller

OmniCore™ compactness and performance in harmony

Small in a big way!

- Versatile, compact, fast – Three little words, that deliver a whole lot of power.
- Offering 50% reduction in size and enhanced integration capabilities without any compromise on performance.
- ABB´s newest small controller can tackle your toughest challenges in a big way!



Key Benefits

- Significant size reduction and flexible mounting possibilities
- Best-in-class motion control and path accuracy
- Impressive versatile offering incl. wide variety of fieldbuses, vision systems and sensors

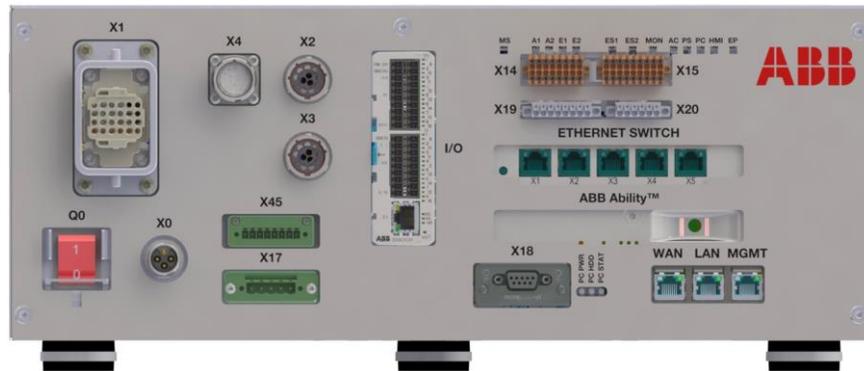


OmniCore™ Small Robot Controller

50% reduction in size combined with an array of flexible integration possibilities

Built-in Version

- Optimized to be built-in
- 19" rack mounting kit available
- Vertical mounting kit available



Desktop Version

- Optimized for easy integration
- Elegant cable management



OmniCore™ Small Robot Controller

Installations kits for built-in version

19" rack mounting kit

- Rack mounting kit for installation in standard 19" cabinet
- Rack mount is very efficient way to save floor space and keep the controller protected from tough environments



Vertical installation kit

- Allows the controller to be installed standing vertical without compromising cooling.
- Also included a hanging bracket for hanging the controller on its backside



OmniCore™ Small Robot Controller

Supported manipulators

Small in a big way!

- OminCore™ small is designed to support new small robots
- For first release single arm YuMi® will be supported
- Other supported robots will be rolled out gradually



OmniCore™ Controllers

For high performance and seamless digitalization

Ensures convenient connectivity

- The ABB Ability™ digital platform and ABB Ability Connected Services are built into all our new controllers
- Improve performance and reliability of single robots or entire fleets
- Through our services and expertise turn data into the direct actions and value
- Simply power on and connect



A connection solution for every need

- A selection of solutions to receive the connection matching all needs
 - Mobile connection
 - WiFi connection
 - Wired connection



OmniCore™ Controllers

Fully prepared with SafeMove2

Enable collaboration & floor space saving

- The OmniCore controllers comes fully prepared with SafeMove2
- Allow people and robots to safely work closer together without compromising productivity.



Key benefits

- Allow people and itself to work more closely together without the need of safety cages
- Enables lean, flexible and more economic robot solutions
- Facilitates human/robot collaboration



The new FlexPendant

- Modern, intuitive and powerful
- Large capacitive multi-touch display with standard gestures such as pinch, swipe and tap as on a smartphone
- Hot swappable - unplug during operation and share among several robots
- Extensive customization possibilities



The new FlexPendant

Hardware Features



ABB