Mobile automation

Easy automation for machines on the move

PERFECTION IN AUTOMATION
A MEMBER OF THE ABB GROUP

The demands placed on modern mobile machinery have evolved dramatically over the years. With new functions being added all the time and requirements for operating efficiency and quality higher than ever, these vehicles need an automation system that is both powerful and scalable. B&R makes it easier than ever to implement automation solutions for construction equipment and municipal vehicles as well as for agriculture and forestry applications.

Contents

Four challenges

Digitalization

To succeed at digital transformation, you need a solution partner with a clear vision, a broad portfolio and strong local support.

Complexity

To survive, you need to master a growing array of custom machines and variants with integrated safety technology, robotics and telemetry.

Lifecycles

To keep up with fast moving market demands, you need to shorten innovation cycles for new functions.
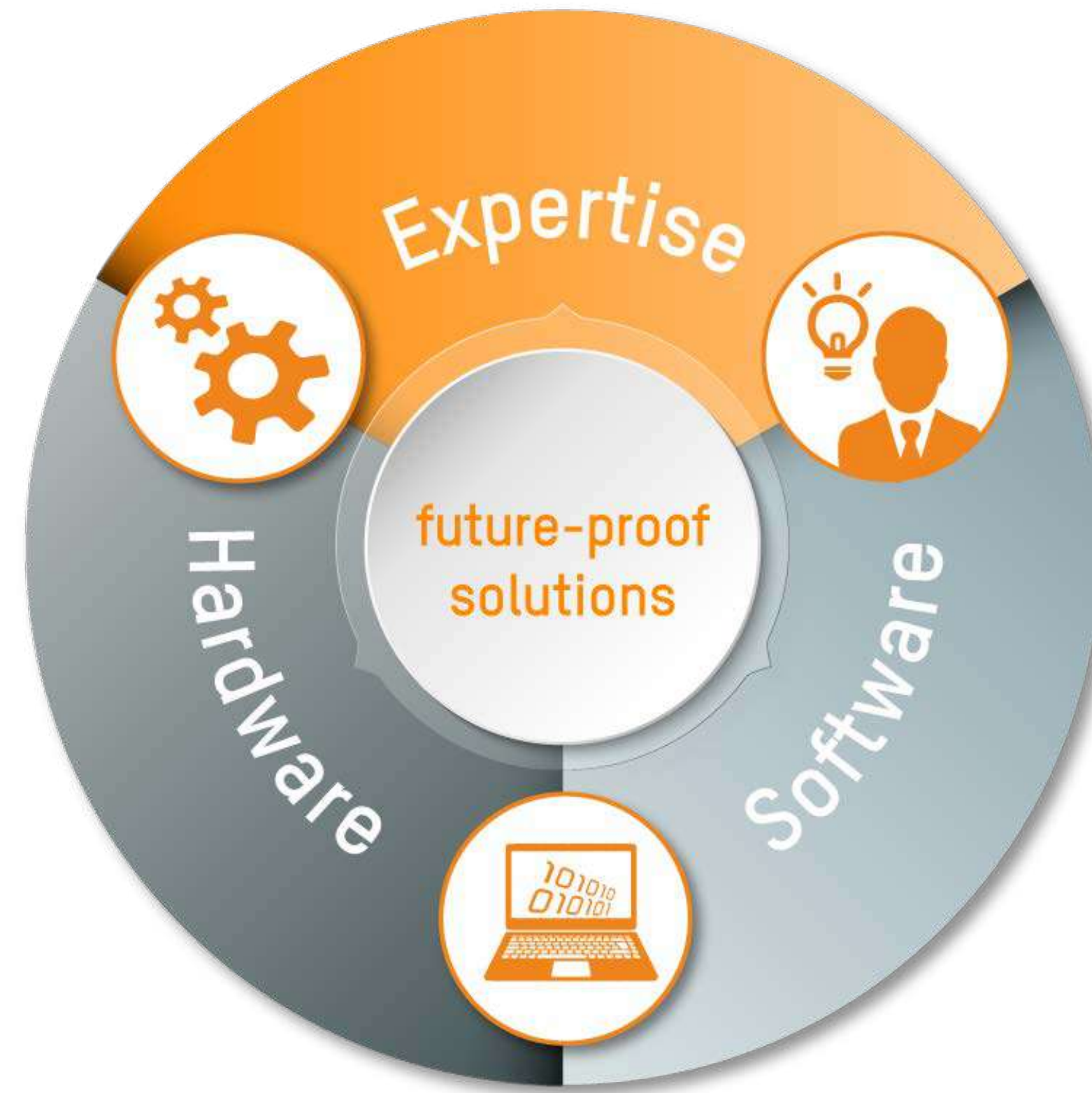

Markets

To win in global markets, you need to tame a jungle of local standards and certifications.

One solution

As your technology partner, B&R will provide you with the support you need every step of the way –
We combine hardware, software and expertise to create future-proof solutions for the international market.

Understanding your requirements and working together to implement solutions – that is our mission.

At B&R, we put all of our knowledge, experience and creativity into developing technology that shapes the future of manufacturing. Together, we will set trends and shape the future.

Our motto "Perfection in Automation" goes hand-in-hand with carrying out our everyday tasks. To us, that vision means providing a complete automation solution that gives you maximum flexibility and economic efficiency.

It also means cultivating long-term relationships based on trust. We'll accompany you from start to finish – from conceptual design to development and through to after-sales service. With B&R at your side, you can count on a solution-oriented partner that always keeps the bigger picture in mind.

Easy automation

Automated guided vehicles

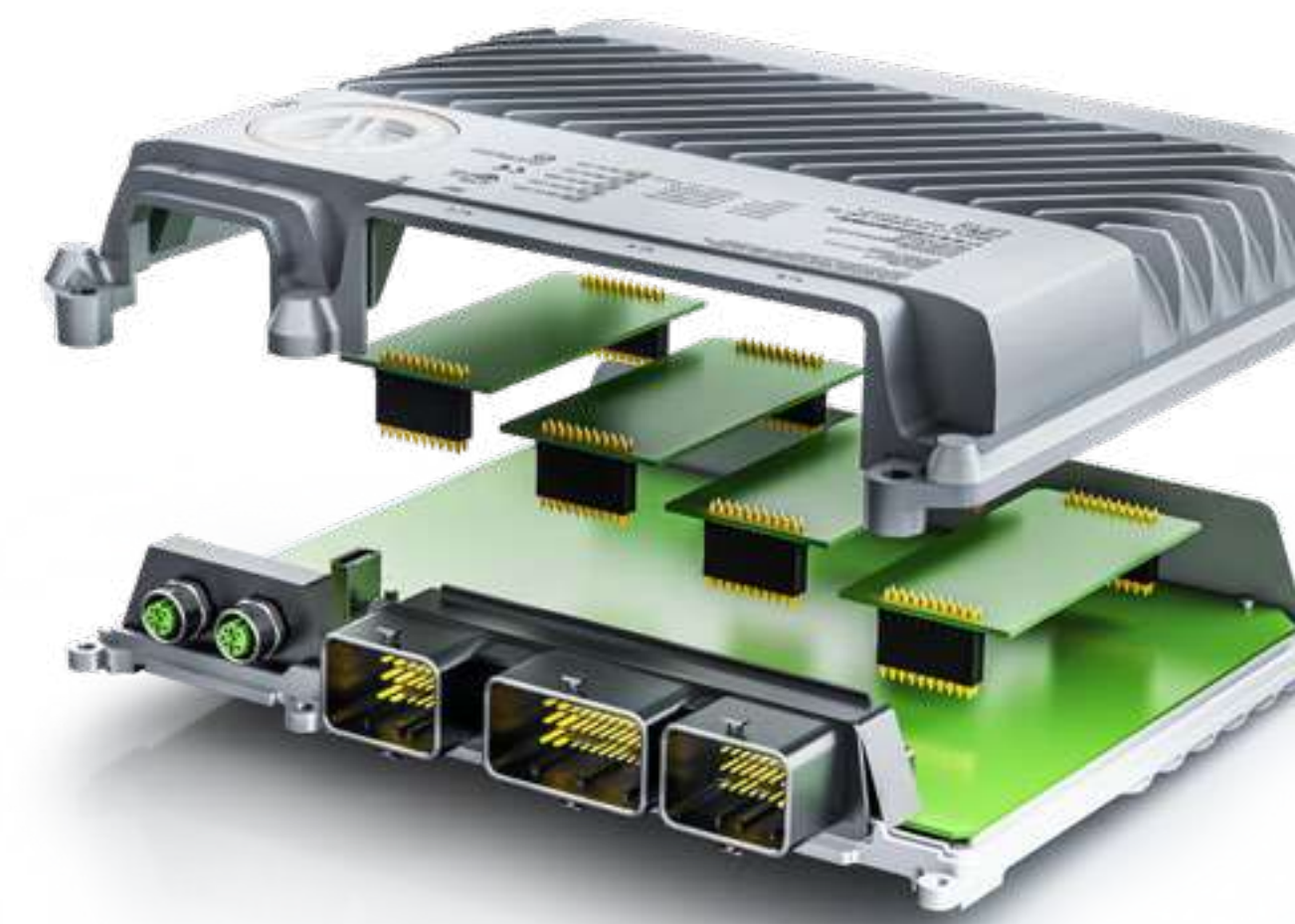Construction equipment

Municipal vehicles

Agriculture and forestry industry

The mobile automation lineup

Modular X90 control and I/O system

Automation PC 3100 mobile

Powerful PC

With its built-in IP69K protection, the powerful PC is ideally suited for use in harsh environments. The PC is equipped with an Intel Core-i processor that is scalable over a wide range from the Celeron with 2.2 GHz up to the Core i7 with 2.8 GHz.
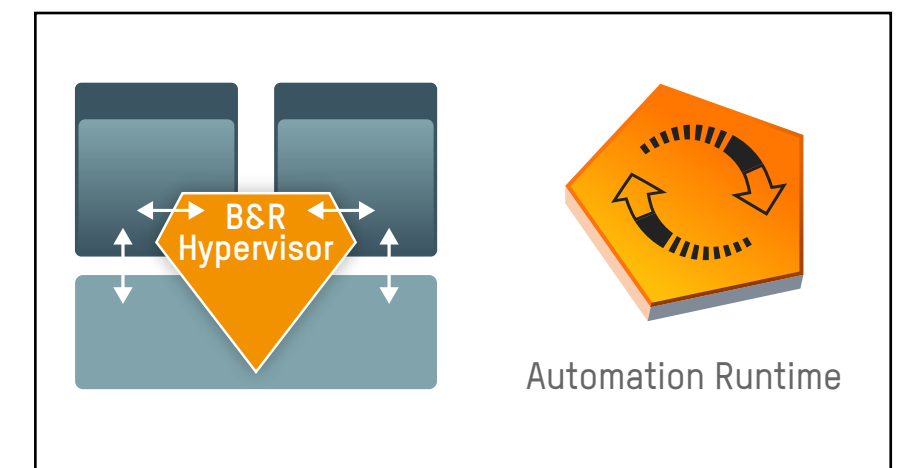
To the product video
on YouTube

Option boards
Option boards for the PC add interfaces for connecting external I/Os like CAN or POWERLINK.

Real-time control
Automation Runtime embedded turns the PC into a high-performance real-time capable controller. B&R Hypervisor allows multiple operating systems to be used on one computer simultaneously.

B&R Hypervisor

Automation Runtime

Edge computing
B&R offers tools for implementing PC-based tasks like predictive maintenance, big data analytics for machine optimization or security gateways.

Visualize and operate with Power Panel T50 mobile

Reliable operation
The Power Panel features die-cast aluminum housing for mechanical stability and a multi-touch display that can even be used in the rain. The readability of the display can even withstand direct sunlight.

Many possible uses
The robust panel is ideal for indoor and outdoor HMI applications, such as those used in truck cabs or on machines for road construction, field work and earthmoving operations. The panel is available in 5'', 7'' and 10.1'' diagonals.

Flexible HMI
The web-based Power Panel features the platform- and operating system-independent HMI solution, mapp View. Create modern HTML5 applications with ready-made widgets.

Practical accessories
Available mounting types include standard brackets, panel mounting or front plate mounting. A variety of cables and connectors are also available.

mapp
VIEW

Engineering tools for all tasks

Automation Studio

Automation Studio is B&R's integrated software development environment with tools for all phases of a project. Controllers, drives, communication and HMI devices can all be configured in one environment. That reduces both integration time and maintenance costs when developing new mobile machinery.

mapp Technology

Modular mapp software components simplify development of new programs and accelerate development time for machine software by a factor of three. This lets programmers focus on their main task: Implementing automation processes in the application software.
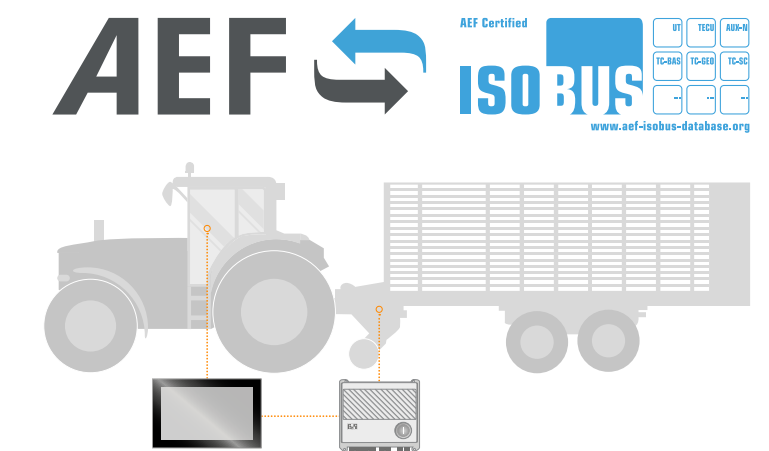

Simulation

B&R provides the necessary tools for modeling and simulation in MATLAB/Simulink and MapleSim. Each developer can work in their preferred language, allowing for faster and easier development of mobile machines.

Software stacks

B&R offers a certified ISOBUS stack and corresponding toolchain for connecting tractors and implements. The ISOBUS stack covers all the relevant aspects of the ISOBUS standard.

Contact

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Integrated automation
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