

Herzlich Willkommen!

Online-Workshop: Mobile Automation Vollständig integrierte Automatisierung für mobile Maschinen

Agenda

PERFECTION IN AUTOMATION A MEMBER OF THE ABB GROUP



Richard Sturm Marketingleiter Deutschland

B&R Industrie-Elektronik GmbH | TBM Norsk-Data-Straße 3, 61352 Bad Homburg, Germay Phone: +49 6172 4019 191 Email: richard.sturm@br-automation.com www.br-automation.com







Stefan Messerklinger (vormals Taxer) Product Manager Mobile Automation

B&R Industrial Automation GmbH B&R Straße 1, 5142 Eggelsberg, Austria Phone: +43 7748 6586 1152 Email: stefan.messerklinger@br-automation.com www.br-automation.com







Company

Focus on Perfection in Automation for 40 years

Active in different industries

Headquarter in Eggelsberg (Austria)





Industries







Challenges for OEM machine builders

Fast growing and changing market/customer demands International makes

New competition

Cost pleasure

. . .

Machine reliability

Long term availability



Perfection in Automation





B&R technology platform









Environmental conditions

| Industry | Mobile Automation | |
|---|---------------------------------------|--|
| | | |
| Industrial conditions, cabinet mounting | Outdoor automation, no cabinet needed | |
| 24V, IP20 | 9-32V, IP69k | |
| Humidity 90%, | Condensing conditions | |
| Good temperature range | Extended temperature range | |
| Good shock and vibration range | Extended shock and vibration | |



Products Mobile automation





Product overview

| Terminals | Controllers | PC | Solutions |
|--------------|-------------|-------------|---|
| mapp VIEW | | | SAE J1939 CRNOPCA safety |
| | | an an an an | Al Cretter ISO BUSS excel base database |



T50 mobile

Browser devices Available in 5", 7" and 10.1" LED and brightness sensor on front



https://www.br-automation.com/en/products/mobile-automation/power-panel-t50-mobile/

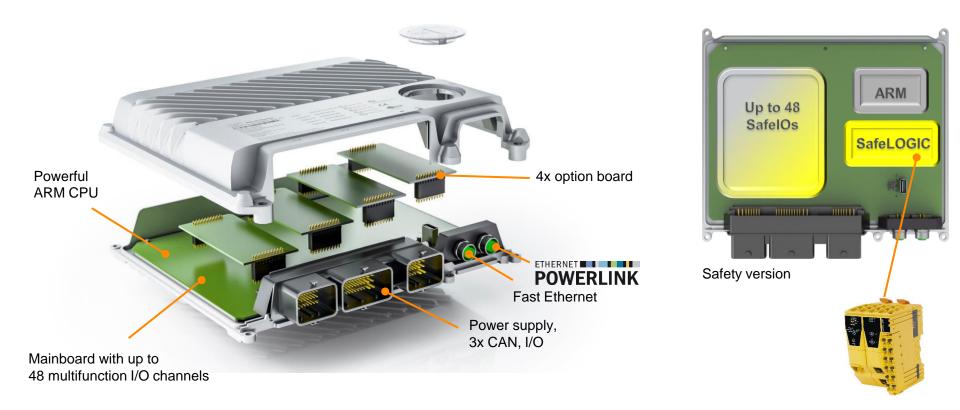


T50 mobile





X90 – (safety) controllers and I/O modules





Option boards





Vibration sensors For condition monitoring

Different I/O's AI, AT, PWM, AO DI, DO, encoder





Stepper

https://www.br-automation.com/en/products/plc-systems/x90-mobile-control-system



APC mobile 3100

Up to Intel i7 2.8GHz 16 GB RAM, 480 GB Flash Extended temperature range IP69K sealing extremely shock- and vibration-resistant Modular expandable

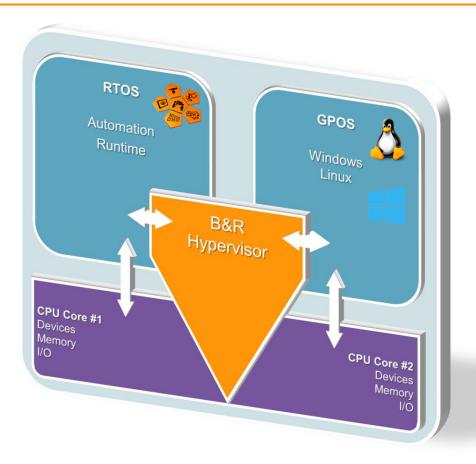






Hypervisor

Combines Windows 10 or Linux with B&R Automation Runtime





Basic System



One software per machine

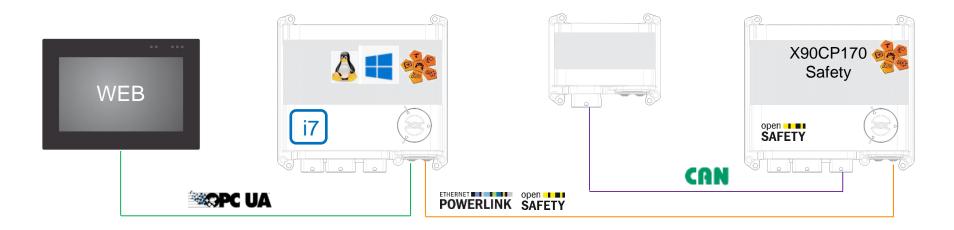
performant embedded CPU with 650MHz, 1GB flash, 512MB RAM

Decentralized, deterministic safe I/O

Terminal with web browser, webserver on embedded controller



High End System



High end CPU with 2.8GHz, 480GB flash, 16GB RAM for embedded and GPOS

Decentralized, deterministic safe I/O

Terminal with web browser, webserver on embedded controller

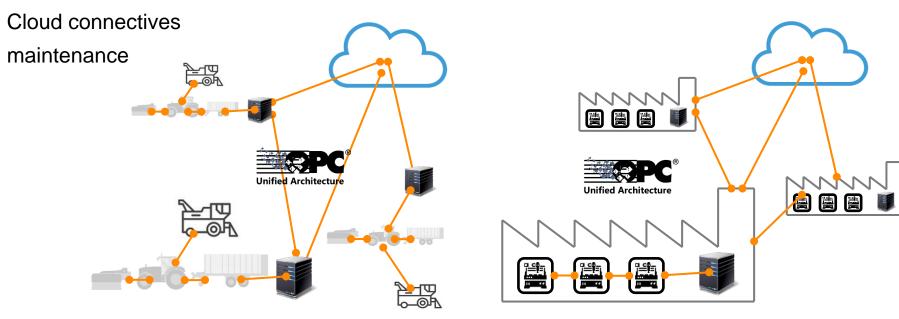






Example connectivity

Machine to Machine automation

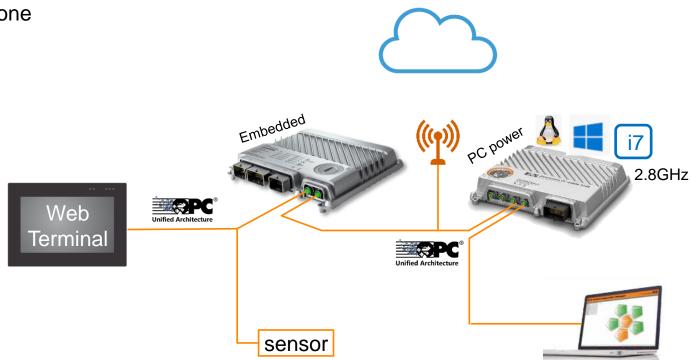




Example connectivity

Machine backbone Safety, security

Standardized







Tools and solutions Mobile Automation



Automation Studio

Innovation is SW based B&R Automation Studio tool one tool for many targets



Application modules



Project n

Efficient machine modularization



Self-contained, autonomous applications

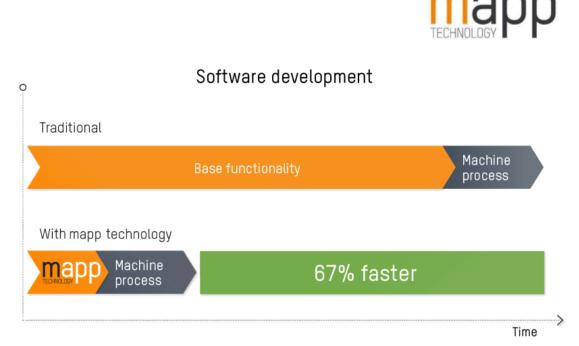
Developed, commissioned and updated independently

Defined interfaces using process variables

Efficient maintenance of individual modules

Mapp Technology

Pre-developed applications by B&R Reduced development costs Improved software quality









Maximum productivity through integrated safety technology. mapp Safety covers the entire spectrum, including safe axes and robots. Safe machine options can be enabled or disabled in the field.



More than just hardware

Direct contact to technical sales: https://www.br-automation.com/en/aboutus/locations/

Overview Mobile Automation with videos: <u>https://www.br-</u> <u>automation.com/en/industries/mobile-</u> <u>automation/</u>

