PC for mobile machinery
APC mobile 3100

The PC for mobile machinery adapts flexibly to your requirements and features a 7th-generation Core i processor from Intel. Its performance can be scaled from a 2.2 GHz Celeron processor to a 2.8 GHz Core i7. The PC also offers up to 16 GB RAM and 480 GB of flash memory and is equipped with a TPM module. It supports standard operating systems like Windows and Linux.

The PC's rugged design is resistant to shock, vibration, salt, UV light and oil. Despite the housing being completely sealed, it is also fanless. The zero-maintenance PC has a specially developed temperature management system that allows it to be operated from -40°C to +85°C surface temperature.

The PC is insensitive to voltage fluctuations. In addition to a broad standard voltage range from 9 to 32 V, it also has integrated load dump protection. This compensates for peaks in the supply voltage to protect the electronics and ensure uninterrupted operation. Two internal slots allow the PC to be expanded modularly with additional functions.
PC for mobile machinery

Automation specialist B&R is adding a PC for mobile machinery to its portfolio. The powerful and exceptionally robust Automation PC mobile 3100 is equipped with an Intel Core i processor and offers IP69K protection. Its high performance makes it optimally suited to smart machines that communicate with each other, process data and send it to the cloud.

PC technology – Made by B&R

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Compact power for mobile machinery

PCs from B&R are built to meet the demands of harsh environments, reliably and long-term availability. All B&R PCs are developed and built in-house and subjected to intensive quality assurance processes. Various options make PCs suitable for a wide range of applications, from vehicles and municipal vehicles as well as for industrial machinery, and municipal vehicles as well as for industrial machinery. The APC mobile 3100 is designed for harsh environments like the mobile machinery sector and is compatible with all common safety standards. Health pipe cooling ensures a housing temperature of -40°C to +85°C. The Power Panel T50 mobile is designed for demanding outdoor applications and features two slots for PCIe option boards to future-proof the PC. The APC mobile 3100 supports a wide variety of option boards, including safety, handheld HMI and operator panels, as well as a wide variety of option boards. The software – added value for every PC

The PC for mobile machinery was subjected to comprehensive testing in B&R's own environmental testing lab throughout the development process. Intensive EMC, shock, vibration and temperature testing confirmed that the PC can easily stand up to the harsh conditions faced by mobile machinery.

Extensive outdoor portfolio

The demands placed on commercial vehicles have evolved dramatically over the years. With new functions being added all the time and requirements for computing efficiency and reliability being higher than ever, these vehicles need an automation system that is both powerful and scalable. B&R solutions make it easier than ever to implement automation concepts for construction and municipal vehicles as well as for industrial machinery. The software – added value for every PC

Windows and Linux

In addition to Windows and Linux, the PC for mobile machinery can run B&R's real-time operating system Automation Runtime, turning it into a high-performance mobile controller. A hypervisor makes it possible to combine Windows or Linux in parallel with Automation Runtime.

One central programming tool

Automation Studio is B&R's integrated software development environment with tools for all phases of a project. Controls, safety, communication and HMI can all be configured in one environment. That reduces both integration time and maintenance costs.

More time for what counts

The ready-made software components of mapp Technology make it easy to master complex algorithms. mapp components – mapps for short – are as easy to use as a smartphone app. Rather than write lines and lines of code to build a user management system, alarm system or hydraulic control application from the ground up, developers of machine software simply configure the ready-made mapps with a few clicks of the mouse.

Completely consistent process control

B&R's APROL process control system provides centralized processing of large volumes of data, making it easy to solve complex analytics and process control tasks.

Power Panel T50 mobile: HMI for the demands of outdoor applications

Future-proof with two slots for PCIe option boards

Operating system

Operating system: Windows 10 and Linux. The PC for mobile machinery supports the latest Windows and Linux operating systems. The system is based on Intel's latest processor generation. A hypervisor makes it possible to combine Windows or Linux in parallel with Automation Runtime.

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