PC for mobile machinery APC mobile 3100

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PC for mobile machinery

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



PC technology – Made by B&R

Powerful.

Core i processor from Intel. Its performance can temperature. 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 **Scalable.** with a TPM module. It supports standard operating systems like Windows and Linux.

Rugged.

The PC's rugged design is resistant to shock, supply voltage to protect the electronics and vibration, salt, UV light and oil. Despite the housing being completely sealed, it is also fanless. The zero-maintenance PC has a specially developed with additional functions.

The PC for mobile machinery adapts flexibly to temperature management system that allows your requirements and features a 7th-generation it to be operated from -40°C to +85°C surface

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 ensure uninterrupted operation. Two internal slots allow the PC to be expanded modularly

Compact power for mobile machinery

PCs from B&R are built to meet its customers Modular customization demands for maximum robustness, reliability and The PC for mobile machinery is available in multiple long-term availability. All B&R PCs are developed variants, and additional functions can be added and built in-house and subjected to intensive using PCIe option boards. Guaranteed long-term function testing.

Performance in harsh environments

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.

availability makes it a future-proof investment.

PC variants	Intel Celeron	Intel i5	Intel i7
Processor	3965 U - 2.20 GHz	7300 U - 2.60 GHz	7600 U - 2.80 GHz
RAM	4 GB	8 GB	16 GB
Flash	120 GB	240 GB	480 GB

Service access for USB 2.0 interface, battery ouffer and DisplayPort interface

Intel Celeron to Intel CORE i7 with 2.8 GH 4 to 16 GB RAM 120 to 480 GB flash TPM 2.0

Extensive outdoor portfolio

evolved dramatically over the years. With new ture and forestry applications. The PC for mobile functions being added all the time and require- machinery complements B&R's extensive portfolio ments for operating efficiency and quality high- of other mobile automation technology, including er than ever, these vehicles need an automation the modular X90 control and I/O system, safety, system that is both powerful and scalable. B&R handheld HMI and operator panels, as well as a solutions make it easier than ever to implement wide variety of option boards. automation concepts for construction equipment

The demands placed on commercial vehicles have and municipal vehicles as well as for agricul-



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



X90 Safety: control and I/O nodes for mobile safety



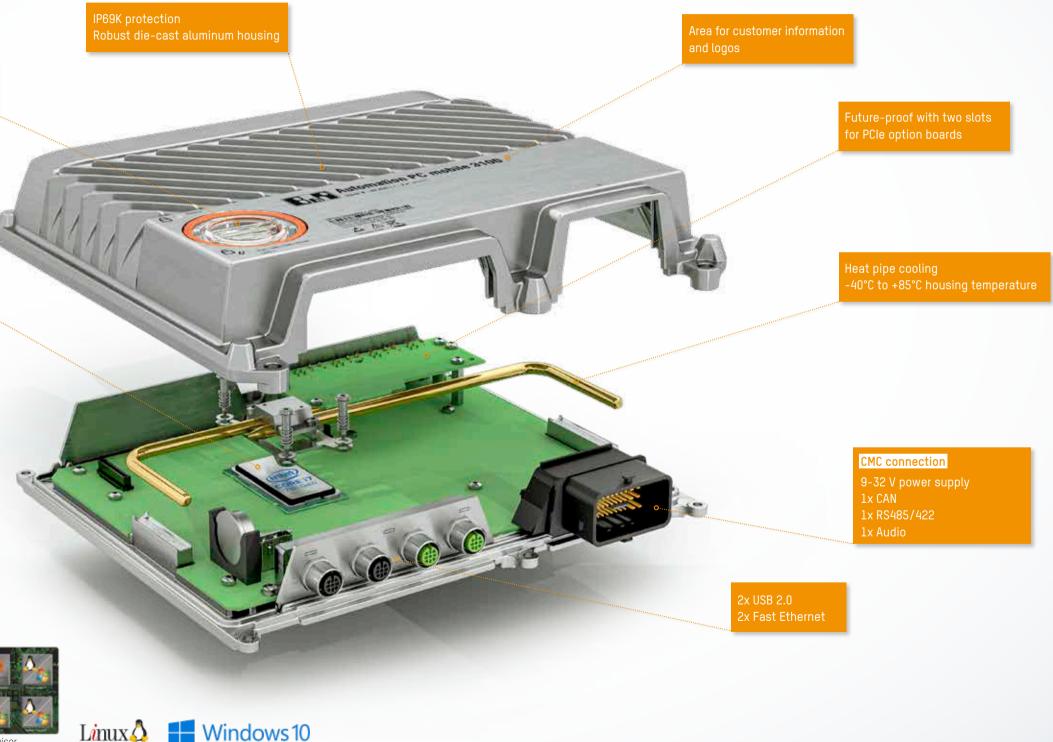
X90 option boards: modular scalability for new functions

Highlights

- Suitable for use in harsh environment
- → Standard operating systems:



APC mobile 3100



Software – Added value for every PC

Ready-made software solutions for the mobile PC:

Operating systems

mobile machinery can run B&R's real-time opera- Technology make it easy to master complex ting system Automation Runtime, turning it into a algorithms. mapp components - mapps for short high-performance mobile controller. A hypervisor – are as easy to use as a smartphone app. Rather makes it possible to combine Windows or Linux in than write lines and lines of code to build a user parallel with Automation Runtime.

One central programming tool

ware development environment with tools for all phases of a project. Controls, safety, commu- Completely consistent process control nication and HMI can all be configured in one B&R's APROL process control system provides and maintenance costs.

More time for what counts

In addition to Windows and Linux, the PC for The ready-made software components of mapp management system, alarm system or hydraulics control application from the ground up, developers of machine software simply configure the ready-Automation Studio is B&R's integrated soft- made mapps with a few clicks of the mouse.

environment. That reduces both integration time centralized processing of large volumes of data, making it easy to handle complex analytics and process control loops.



Integrated automation Global presence Solid partnership



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