

Off-Highway Robotics Controller Generation 1

Powerful control unit for high levels of machine automation

Includes the open-source Robot Operating System (ROS) for highly flexible automation



TECHNICAL CHARACTERISTICS

Computing	Microprocessor	Intel Atom E3845 quad core 1.9 GHz
	Microcontroller	ARM Cortex-M3
Interfaces	General	USB 3.0, USB 2.0 LAN 3 × 1 Gbit/s, 2 PoE CAN
	Wireless	Wi-Fi 802.11 b/g Bluetooth 4.1
	Wired	4 analog inputs 4 digital inputs/outputs
Power supply	Input range	9 to 60 V (max. 60 W)
	Output	12/24 V DC, 24 W, PoE 50 V, USB 5 V
Internal sensor	Inertia	9-axis IMU
Environment	Temperature	-20 to +55 °C
	Protection	IP65
Dimensions	Size	210 × 193 × 70 mm
	Weight	2.2 kg
	Stability	EN 60721-3-5 Cl. 5M3

wide supply voltage range

from 9 to 60 volts for agricultural, construction and intralogistics machinery

high-speed connections

to other controllers in the machine as well as to the outside world

internal inertial measurement

capability for frequently encountered application scenarios

- ▶ The Off-Highway Robotics Controller Generation 1 includes a Linux-based operating system in combination with Robot Operating System (ROS) middleware for easy integration of customer-specific software.
- ▶ With a powerful processor and a wide variety of connection options, this ruggedly designed controller can be used for automation tasks in off-highway applications like forklifts, tractors and wheel loaders.
- ▶ The integrated SD slot for up to 2 TB of data storage and the internal inertial measurement unit (IMU) are unique features.