

ISSUE: [June 2026](#)

Power Distribution Controller Offers Intelligent Power Management For Vehicles

From [Würth Elektronik ICS](#), the ePDM 70-150 is described as an innovative controller that changes the way power is distributed in vehicle electrical systems. This intelligent solution combines logic processing, communication, advanced diagnostic possibilities and high-current outputs in a compact device, setting new standards in vehicle electrics and electronics, according to the vendor (Fig. 1).

Equipped with nine analog and digital inputs and a variety of outputs up to 35 A, the ePDM 70-150 is designed for demanding control and power distribution tasks. It operates efficiently over a temperature range of -30°C to +85°C, with a current carrying capacity of 150 A at 70°C. IP67/IP69K protection ensures reliable operation even in harsh environments.

The ePDM 70-150 enables various wake-up scenarios, such as activating the in-cab HMI when the door opens. It also features "always on" outputs that remain active even in sleep mode, ensuring a protected power supply to critical components such as telematics modules.

Offering a high degree of flexibility, the ePDM 70-150 supports software updates for continuous function development and optimization without hardware changes. The use of identical hardware for different vehicle models reduces overall system costs, with development costs primarily limited to software development. Minor behavioral adjustments can be made by programming.

According to the vendor, the ePDM 70-150 can be easily integrated into existing vehicle designs without the need for direct access, simplifying installation and cabin design. Extensive diagnostic functions, such as the recording of switching frequency or operating time per output, facilitate service and support preventive maintenance (Fig. 2).

For further info, see the ePDM 70-150 [page](#).

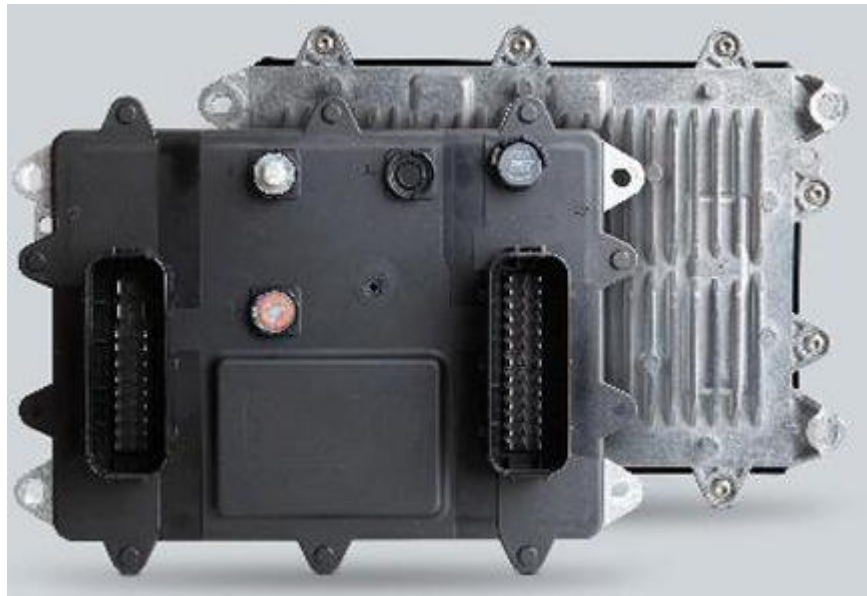


Fig. 1. The ePDM 70-150 is designed to meet the growing demands of intelligent and connected mobile machines and commercial vehicles. As a versatile controller with power distribution capabilities, it offers many benefits.



Fig. 2. The ePDM 70-150 is fully programmable and supported by the powerful WEcontrol Designer programming environment. It offers a wide range of features, including a J1939 library and advanced online debugging functionality.