Rugged Panel PC Solution for Heavy-duty Electric Trucks Charging Depots

Why Moxa

- Ensures reliable performance with IP66-rated protection and IK08 impact resistance
- High-brightness display and multi-touch capability allow for bright sunlight, even while wearing gloves
- Certified to meet DNV, CID2, ATEX Zone 2, and IECEx standards

Featured Products

MPC-3120 Series

Multi-interface fanless Panel PCs

- 12.1-inch Panel PC
- -30 to 60°C operation temperature, fanless and without a heater design
- Projected capacitive touch for enhanced glove touch sensitivity
- 400-nit or 1000-nit sunlight-readable LCD
- IP66-rated front panel for protection in heavy rain
- Intel Atom® x6211E dual-core or x6425E quad-core processor
- Meet IK08

Electric vehicle demand growth makes efficient charging infrastructure vital. To electrify its heavy-duty truck fleet, a logistics company decided to build fast, reliable charging depots. These depots needed to reduce charging times, improve fleet uptime, and handle outdoor challenges such as extreme weather and heavy usage.

System Requirements

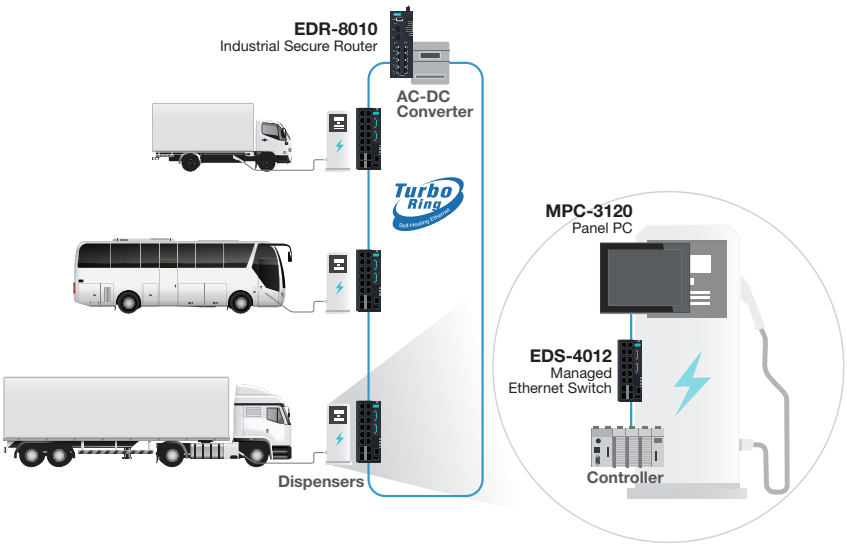
- Rugged outdoor compatibility to withstand water, dust, and extreme temperatures, ensuring stable performance in outdoor environments
- A sunlight-readable, glove-friendly touchscreen for easy interaction in outdoor conditions
- Compliance with safety standards to enable operation in demanding environments

Why Solutions

The project required equipment that could handle harsh conditions like dust, water, and extreme temperatures. Additionally, users needed a reliable and intuitive interface with sunlight-readable displays to ensure ease of use in outdoor environments. To guarantee safe and efficient operations, all components needed to meet strict industrial safety and compliance standards.

Moxa's MPC-3120 Series, tailored for challenging industrial applications, answered these demands. With an IP66-rated front panel and IK08 impact resistance, the MPC-3120 Series ensures reliable operations in rugged environments. Its fanless architecture eliminates the risk of dust clogging, minimizing maintenance needs and maximizing uptime.

The MPC-3120 Series meets critical safety and compliance standards such as DNV, CID2, ATEX Zone 2, and IECEx, ensuring reliable and safe operations in hazardous conditions.



To learn more, visit our Rugged Panel PCs portal site