

CZ Mobility IoT Gateway for Machinery Vehicles



Product Features

- **Remote Firmware Update**
Remote update EPEC controller firmware online.

- **Web-based Online Troubleshooting**
Real-time read & write CAN bus data via the web browser.

- **Remote Programing & Upload/Download**
Remote access and download programs for controllers via CODESYS.

- **Data Collect & Dashboard Visualization**
Real-time collect controller data and upload to the cloud or dashboard.

- **GPS and Geofencing**
Users can obtain real-time vehicle coordinates and view live positions and historical trajectories via the web or mobile app.
Combined with equipment status monitoring, the system enables vehicle dispatching, geofencing, and trajectory playback, providing strong data support for project management and security monitoring.

Remonde Industrial Gateway is a high-performance industrial gateway engineered specifically for remote firmware updates on machinery vehicles operating in harsh environments. When integrated with a remote access server and cloud platform, it forms a robust remote operation and maintenance center for equipment.

The solution enables online troubleshooting and real-time monitoring of devices equipped with CAN, Ethernet, and RS232 interfaces. By minimizing on-site visits, it significantly reduces operational costs and improves overall efficiency.



Product Specifications

- CPU: ARM Cortex, 800Mhz
- OS: Linux-based Embedded System
- Memory: 256MB RAM / 8GB Flash
- Operating Temp: -20°C ~ 60°C

Automotive Grade 14-pin Connector

- Wired Connectivity
- 12-24V DC Power
- 10/100M Ethernet (Supports LAN, Static IP & DHCP) *1
- RS232 Serial Port (Rx/Tx)*1
- CAN BUS Interface*1

Wireless Connectivity (w/Antenna)

- 2G/4G (China/Europe Bands Optional)
- GPS/Beidou (Dual-mode, Independent GPS Chip)
- 2.4G/5.8G Dual-band Wi-Fi
- 4G SIM Card Slot

Cloud & Protocol

- DCC Platform
- MQTT 3.1/5.0

The gateway securely collects and transmits controller data to the cloud via encrypted MQTT. Users can remotely monitor construction machinery through web or mobile applications, perform online diagnostics, handle alarms, and manage work orders. Historical data analysis and reporting further support data-driven decision-making.

Secomea SiteManager Embedded

- A globally renowned remote access solution
- Complies with the IEC 62443 standard

Data acquisition capabilities

- CAN bus
- RS232 serial port
- Modbus TCP
- Modbus RTU
- OPC UA
- Siemens S7
- Rockwell CIP
- Omron FINS
- Mitsubishi MELSEC
- Beckhoff ADS



Appearance and Connections

Antenna ports, power and communication connector, status indicators, SIM card slot and reset button.

