NEXCOM

Central Control Room

Hauling Road

Fleet Control

Loading Site

Safety (automatically stops when detecting obstacle)
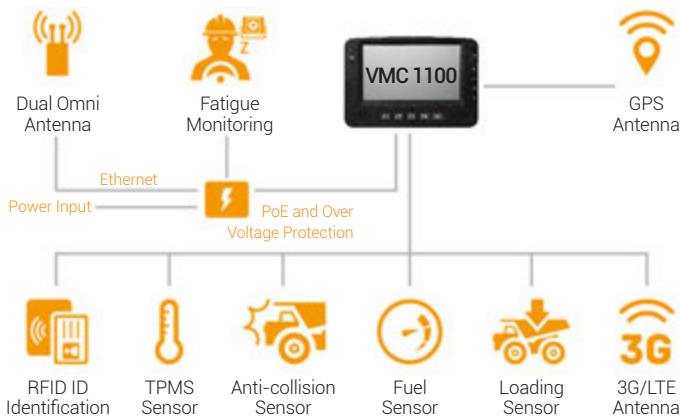
Dumping Site

Mining

NEXCOM Vehicle Mount Computer Enhances Safety, Production & Asset Management At Mines

Mining is a high-risk and high-tech industry. Using information and communications technology allows site managers to monitor all activities at mines and supervise day-to-day operations. Coming to the assistant is NEXCOM VMC 1100 which integrates GPS tracking, wireless communication, remote monitoring, and onboard diagnostics to help with overseeing occupational safety and health, tracking mining progress, and facilitating the management of mining trucks.

Mounted on mining trucks, NEXCOM VMC 1100 gathers a wide variety of data from various sensors for different purposes. To enhance onsite safety, NEXCOM VMC 1100 monitors a truck's

surroundings and stops the truck when detecting obstacles to reduce collision risks. In regard to driver management, drivers' hours are electronically logged to ensure the compliance with mining safety and inspection regulations, while signs of fatigue are observed through work shifts.

The location of all VMC 1100-equipped trucks is tracked, enabling site managers to quickly locate a misplaced truck, dynamically assign tasks to current active trucks, and keep onsite traffic under strict control. For the sake of productivity, telematics data about a truck's health is generated by NEXCOM VMC 1100 to avoid unexpected truck breakdowns.

Dual Omni Antenna

Fatigue Monitoring

VMC 1100

GPS Antenna

Ethernet

Power Input

PoE and Over Voltage Protection

RFID ID Identification

TPMS Sensor

Anti-collision Sensor

Fuel Sensor

Loading Sensor

3G/LTE Antenna

VMC 1100

- Intel® Atom™-powered 7″ all-in-one computer for ease of installation
- 9V~36V power range for unstable power supply protection
- CAN bus 2.0B & OBD II J1939 for vehicle diagnostics
- Compliance with SAE J1113, SAE J1455 & ISO7637-2 standards
- GPS and WWAN to keep in touch with onsite managers