



**Guardvant Mobile Server** is a universal on-board computer and display platform designed to operate multiple software applications for reliable, streamlined operations on mining equipment.



Autonomous/Remote



Underground



Maintenance



Fleet Management



Fatigue



Accurate Data Analysis

## POWERFUL, VERSATILE, UNIVERSAL MOBILE COMPUTER

Guardvant Mobile Server (GMS) is an on-board computer which eliminates the need to have multiple computers and displays in haul trucks, excavators and other types of mining machinery. GMS has the computing power, reliable memory, and versatile interface options to run multiple concurrent applications such as ProxGuard and OpGuard and third party applications such as fleet management, tire monitoring, vehicle health monitoring, biometric access using thumbprint or face recognition and fire suppression.

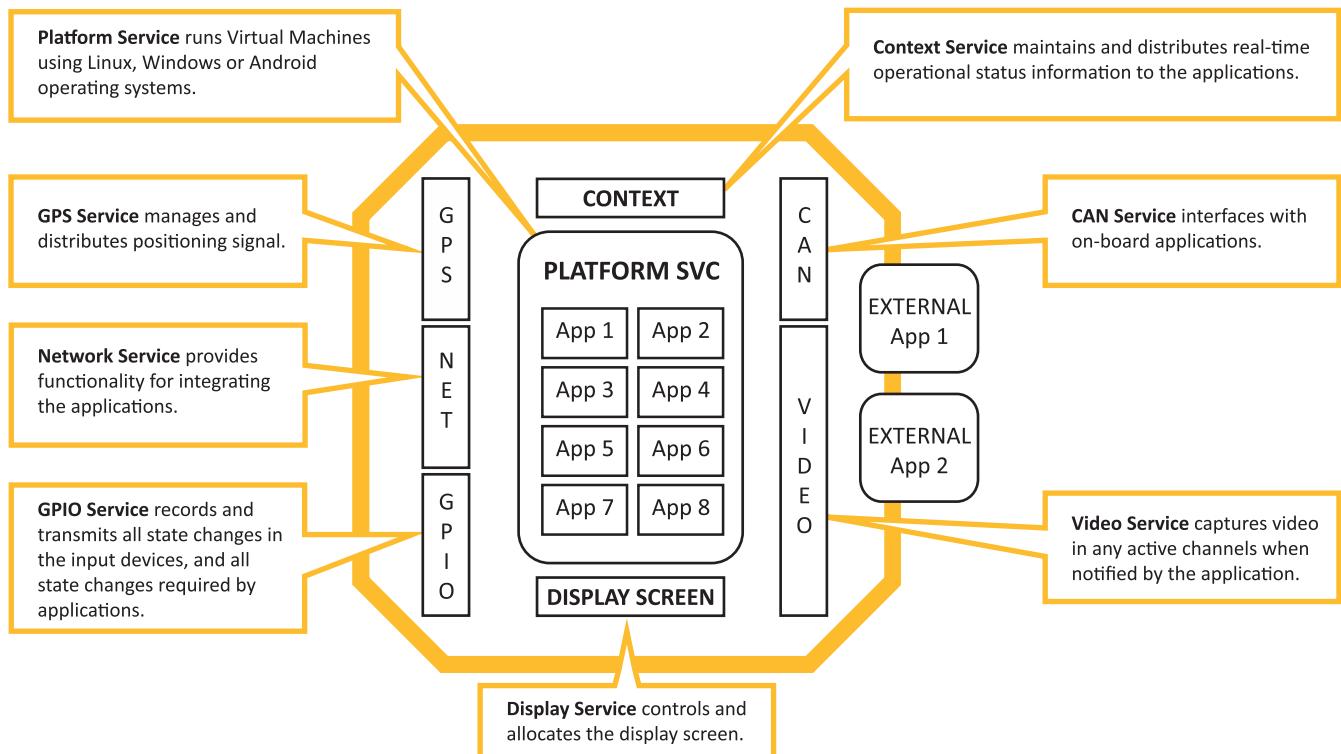
One computer platform in the cab streamlines installation, operation, and maintenance. One high-resolution touch screen is all operators need to control multiple systems. One platform simplifies application installation and maintenance – adding applications does not require installing more computer hardware and maintenance downtime is reduced.

GMS features various configurable service modules which provide equipment status, video, and GPS to the applications, and logs event information, including state changes required by applications. Sophisticated electric circuit breakers allow remote monitoring of currents and remote reset of circuit breakers.

## KEY BENEFITS

- Reduces in-cab clutter by eliminating the need for multiple on-board computers and displays
- Installation process for multiple applications is streamlined
- Maintenance time is reduced and sophisticated features allow remote monitoring of interfaces and reset of electrical circuit breakers
- Slim SATA storage architecture offers reliable and expandable memory
- Maintains real-time operational status of important configurable system parameters for installed applications for triggering alarms
- Manages GPS and distributes positioning to all installed applications
- Provides event, data and video log to record state changes in applications
- Configurable reports, alarms and alerts can be sent to various operational departments via email or SMS

## GMS SERVICE MODULE ARCHITECTURE



## FEATURES

- Operates all Guardvant applications and/or third party applications
- Integrated on-board relational database
- Full support for Linux, Windows applications via VM integrated software
- Ability to connect to any radio communications platform via gigabit Ethernet port
- System event logging to centralized database
- Configurable service modules maintains operational status of applications and required services
- -40 to +75 C Operating temperature

## SPECIFICATIONS

- Multi-core, hyper-threaded mobile processor
- Rugged IP67 lightweight aluminum chassis
- Slim SATA architecture
- 8GB DDR2 memory
- Gigabit Ethernet with 12V POE
- Integrated GPS/GLONASS+L1 GNSS
- 12-24V wide range power supply
- 4x CAN bus ports, 8x video-in ports, 2x RS232, 1x RS422, 1x RS485, 1x J1708, 2x USB, 1x 1080p DVI port
- 6 digital inputs and 6x12V switched outputs
- Software resettable internal circuit breakers
- On-board accelerometer
- Timer control for ignition off controlled shutdown

## GUARDVANT SUITE OF SAFETY PRODUCTS

Our safety systems use advanced technologies to help you improve operator performance, create a more productive working environment, and protect your assets. Our team of passionate and highly qualified engineers has a proven track record of successful system design, implementation and support in the mining industry. A customer-centric approach allows us to deliver solutions that are right for your goals and objectives.

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