SYMPHONY® VEHICLE TRACKING SYSTEM (VTS)

VTS is a cost-effective, high performance vehicle tracking system that provides vehicle location through scalable, high-speed wireless networks. Each unit creates a vehicle track that can be seen in real time, as well as viewed historically.

WHY SYMPHONY VTS?
Symphony provides a fully integrated airport suite that includes vehicle tracking units and real-time situational awareness software that allows you to monitor not only your vehicles but all aircraft in the National Airspace System including the airport terminal area.

VTS unit tracking data is fully integrated into the OpsVue and MobileVue applications providing operations management personnel and vehicle operators complete airport-wide situational awareness; ensuring the most effective collaborative decision making between all airport stakeholders.

The ability to accurately track surface vehicles with VTS, in both the movement and non-movement area (including landside), creates an environment of total situational awareness at a fraction of the cost of competing tracking systems.

BENEFITS

Cost Effective: Vehicle tracking at a fraction of the cost when compared to traditional services

Complete Surface Visibility: Works in movement and non-movement areas

Ease-of-Use: Lightweight and quickly deployable

Integrated: Visualization in MobileVue and OpsVue

LTE Powered: Only requires a SIM card to activate
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FEATURES

Situational Awareness: Shared vehicle position and identity data with other ground vehicles and stakeholders

Optimal Reception: Contains an integrated GPS receiver for accurate vehicle position reports

Fully-Equipped: Includes two external, flexible LTE antennas and affixed cable

TECHNICAL SPECIFICATIONS

The VTS device is equipped with two external, flexible, adhesive wideband (LTE) antennas, connected to the opposite side of the enclosure as the main connector. The antennas each measure 4.73”L x 1.98”W x .008”H and include a permanently affixed coaxial cable, 5.9” long. The physical dimensions of the VTS units are as follows: 3.9”L x 3.2”W x 1.0”H.

The VTS enclosure contains an LTE modem. Each VTS device requires a valid SIM card activated on a cellular network to operate.

THERMAL CONDITIONS

VTS communicates various trajectory and status information to a central system and operates in a range of thermal conditions.

- Allowable Operating Temperature -30°C – 60°C
- Allowable Operating Humidity Up to 95% (non-condensing)
- Storage Temperature -40°C – 85°C
- Storage Humidity Up to 95% (non-condensing)
- Cooling Requirements N/A
- Heat Generation 2.5W
- Heat Dissipation into main PCB via heat conductive pad

ELECTRICAL CONDITIONS

VTS power is received through the main electrical connector at the side of the enclosure with an electrical power interface.

- Supply Voltage +9V to +24DC
- Nominal Power Draw 2.5W
- Peak Power Draw 7.25W
- Nominal Current Draw 278mA @ +9V input
- Peak Current Draw 807mA @ +9V input
- Over-current Protection Provided by PTC resettable fuse in series with input circuit
- Conducted RF Power 23dBm (+-1dBm)

SYMPHONY SOLUTIONS FOR AIRPORTS AND AIRCRAFT OPERATORS

The Symphony suite of applications is a comprehensive, integrated airport and airline operations management platform that provides airport operators with applications that assist in the proactive management of surface operations; airfield and perimeter security; noise monitoring and community engagement; fleet and asset tracking; and traffic flow monitoring.

For more information call us toll free at 855-890-5137 or email CAS@harris.com

About Harris Corporation

Harris Corporation is a leading technology innovator that creates mission-critical solutions that connect, inform and protect the world. The company’s advanced technology provides information and insight to customers operating in demanding environments from ocean to orbit and everywhere in between. Harris has approximately $7.5 billion in annualized revenue and supports customers in about 100 countries through four customer-focused business segments: Communication Systems, Space and Intelligence Systems, Electronic Systems, and Critical Networks.

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