



HIRSCHMANN MOBILITY HS 3000 Series - Intermodal Telematics Solutions

Solar-based tracking system with a service lifetime for more than 7 years

The HIRSCHMANN MOBILITY intermodal telematics solution HS3000 from TE Connectivity can be used for the tracking of assets and delivers relevant data for logistics such as position, time, shock, movement and external sensor data. This information will be transmitted into the systems of telematic service providers and/or IT systems of customers as shippers, forwarders or rental companies.

Due to the specific development for swap bodies, the product fits perfectly in the shape of the roof. HS3000 is equipped with a solar panel and a Li-Ion free rechargeable battery. This leads to a long service lifetime for more than seven years. HS3000 performs even under the harshest environmental conditions.

External sensors e.g. for temperature, humidity, door sensors, lighting and other accessories can be linked via Bluetooth Low Energy (BLE). This standardized interface enables future extensions of already installed HS3000 devices.

Your benefit: The visibility of the intermodal supply chain will increase significantly.

KEY FEATURES

- Over 7 years service lifetime
- Smart power algorithm and energy harvesting
- Hardware-based geo-fencing areas (up to 1000)
- Motion, tamper and device temperature sensor
- Bluetooth Low Energy interface
- Data logging in case of network unavailability
- Firmware-Over-The-Air (FOTA) update
- Device independent data access via API
- 4G (LTE-M) with 2G fallback communication

OPTIONAL FEATURES

- Bracket mount
- External sensors via BLE interface:
Door open/close, temperature, humidity, pairing etc.
- Precision GNSS; Real-Time-Kinematics (RTK)
- eSIM with remote subscription management
- Permanent battery (7 cells = HS 3x7x)
- Customizable logo on request

Commercial Benefits

- Sustainable through energy harvesting
- Data transmission: data collection in the device and data transmission in defined intervals
- Data security: Data encryption and optional carrier VPN tunnel
- Very exact positioning possible (< 0.5 m with RTK option)
- Process optimization due to better supply-chain-visibility
- Incident detection by shock-thresholds and alarms
- Enabling increase of asset utilization
- Analysis of rides and tours
- Monitoring of toll payments
- Reduction of service and down-time
- Monitoring of driving and rest periods of drivers

Technical Details

- Size: 648 mm x 117 mm x 30 mm
- Weight: 1.5-1.7 kg (depending on variant)
- Storage temperature: -40° to 85° C (ideal 0° to 30° C)
- Ambient temperature: -40° to 80° C (adapted functionality -40° to -25° C)
- Shock sensor (3 thresholds)
- 72-channel GNSS receiver
- Motion detection
- Temperature sensor
- Long-life rechargeable battery
- Energy-harvesting by crystalline solar module
- Optional back-up battery
- Fast and safe installation with brackets

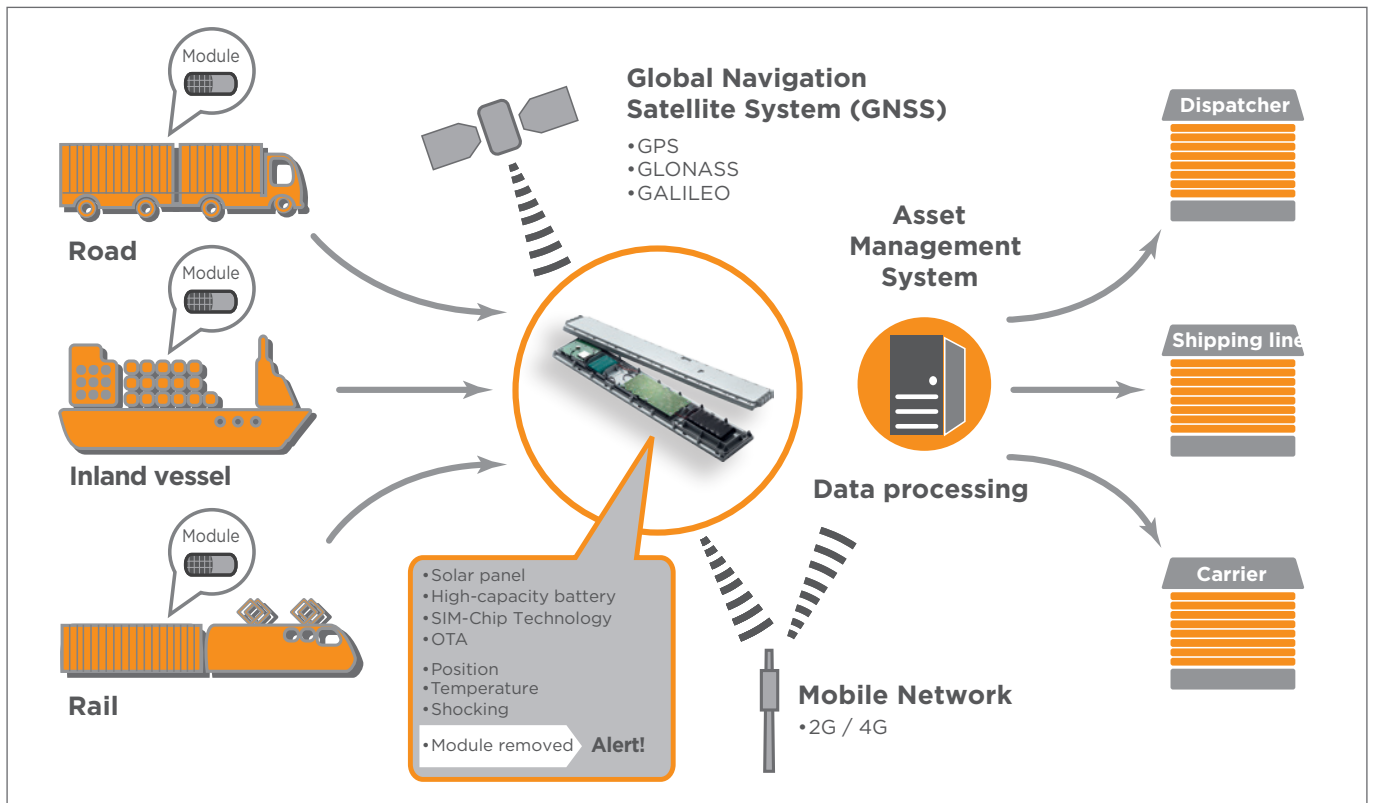
Designed for Swap Bodies

- Fits in shape of container
- IP6K9K: designed for harsh environments
- Optimized antenna design

Connectivity

- 4G (LTE-M) with 2G fallback communication with backend
- Bluetooth 5.0 (BLE with long-range capability)
- Interface for external wireless accessories

Functioning



TE Connectivity's HIRSCHMANN MOBILITY products, formerly Hirschmann Car Communication (HCC), provide some of the world's leading antenna, tuner, infotainment, M2M and telematics technologies, primarily for automobile communications and connectivity.

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