

Application Story - Transport Tracking

Transport Tracking - High Value Goods

In the light of increasing losses during transportation of valuable goods, Hirschmann Car Communication's customer was contracted to develop a cost efficient tracking solution for high-value transports, which allows one-way usage in order to substantially limit the number of involved parties by avoiding the need to retrieve the tracking device once the surveyed transport arrives at its destination. Hirschmann supported the customer's product concept with design, industrialization and manufacturing know-how to meet ambitious goals in timing and performance.



Transport Tracking

Project requirements

- Autarkic functioning complete GPS tracking device with cellular data transmission
- Based on state-of-the-art receiver and transceiver modems
- High performance antennas
- Compact and robust design
- To be hidden within the load
- Cost efficient in order to accommodate one-way use
- Flashable with highly confidential application software



Modular Tracking Solution

Solution

- Application specific antenna design to allow optimal performance in all possible orientations
- GPS ensuring fast position-fix
- RF-antenna and transceiver unit designed based on finished antenna design
- Flexible approach with separate Motherboard and RF-Frontends
- Application specific housing design
- Size 111 x 72 x 26.5mm
- Rechargeable battery to ensure full capacity when deployed
- Integrated charging connector and circuitry
- Minimum Software on board for end-of-line testing

Hirschmann Solutions Advantages

- Outstanding RF-know-how
- Antenna integration authority
- Tier-1 to leading chip/modem manufacturers
- Automotive quality and low-cost design know-how
- Flexibility to embed customer designed components in concept
- Fast development - from prototype to final product
- Complete project management, component sourcing support and global manufacturing service
- All out of one hand resource
- Low manufacturing and tooling cost
- High volume Tier-1 component sourcing priority and cost advantage