

Tellesey TM-150C

Cost-Effective Automotive-Grade Asset Management

Unlock valuable applications using Prodrive Technologies' Tellesey series of telemetry devices. The Tellesey TM-150C is tailored to applications in automotive and (mobile) assets through its robust, automotive-grade, and cost-effective design. It features industry-standard automotive interfaces as well as the newest wireless connectivity technology.



Automotive-Grade Telemetry

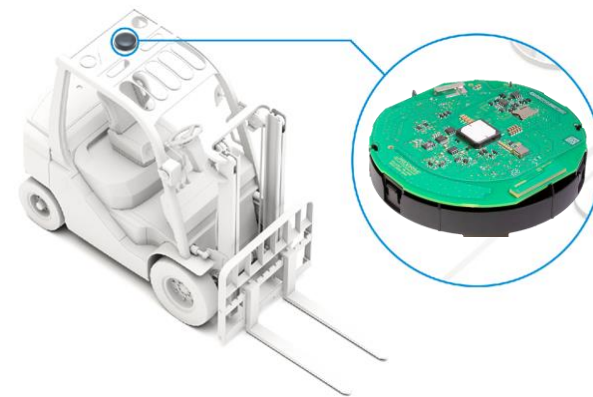
Any device in an automotive application needs to adhere to strict requirements. The Tellesey series of telemetry devices meets these requirements in terms of ambient temperature, thermal and mechanical shock, vibration, humidity, chemical resistance, IP69K rating, and electrical compliance. The design has been fully integrated and optimized to come to a very cost-effective product.

Unlock Valuable Applications

Telemetry is a key driver of end user value and differentiation. It enables use cases such as safety checklists, overloading, user validation, predictive maintenance, and many more. The Tellesey series comes with a comprehensive BSP with APIs that offer full flexibility in developing application software to unlock all of these end-customer use cases.

Newest Wireless Connectivity Standards

The Tellesey TM-150C features industry-standard interfaces (CAN, LIN, RS-232) for easy vehicle integration. On the wireless side, latest connectivity standards have been adopted, including LTE CAT-M1 for cellular connectivity and WLAN/WPA2 and BLE for local connectivity.



Processing & Memory

Microcontroller	32-bit Single Core 200MHz
Program Flash	2MB
Memory	520kB SRAM
Storage	4GB eMMC

Interfaces

CAN	CAN 2.0 up to 1Mbit/s
LIN	LIN 2.1
Serial	RS232 receiver
I/O	10A high-side switched output

Connectivity

Mobile	LTE CAT-M1/NB-IoT/GPRS
Local	WLAN 2.4GHz with WPA2 (Enterprise) Bluetooth Low Energy
Positioning	GPS/GLONASS
Sensors	Temperature, Input Voltage

Regulatory

Europe	RED
North America	FCC/ISED
Country Approvals	On request

Environmental Compliance

Ambient temperature	-40 to +85°C
Thermal Shock	IEC 60068-2-14 (Na)
Vibrations	IEC 60068-2-64, 1.15Grms
Mechanical Shock	IEC 60068-2-27, 50G
Humidity	IEC 60068-2-38 (Z/AD), RH=95%
Salt Spray	IEC 60068-2-52 (severity 5)
IP rating	IP69K
Chemical resistance	Oil, Diesel, Antifreeze, brake fluid, battery acid, ...

Automotive Electrical Compliance

Nominal voltages	12/24/36/48/58 VDC
Load Dump	ISO 16750-2
Automotive transients	ISO 7637-1/2

Software – BSP & Bootloader

Operating System	FreeRTOS
File System	Prodrive Technologies File System



Over-The-Air
Software Update



Robust



Cost-Optimized



Certified