



Tellesey TL-220

Secure and low-cost Asset Management

The TL-220 of the Prodrive Technologies' *Tellesey* Telematics series offers low-cost asset management for industrial and heavy-duty mobile applications. It provides operational insight to enable positioning, condition monitoring, predictive maintenance and remote software update over highly secured wireless connections.

Product features

- Global Mobile Network coverage
- Internal Antennas for easy system integration
- IP69K ruggedized and UV resistant enclosure
- Support for Amazon Web Services (AWS)
- FreeRTOS system on Dual Core Microcontroller
- Communication Security and Data Storage Encryption

Processing & Memory

Microcontroller	32-bit Dual Core 240MHz
Program Flash	2MB
Memory	520kB SRAM
Storage	1Gb SLC NAND

Interfaces

CAN	CAN 2.0 up to 1Mbit/s
Serial	RS232/RS485

Connectivity

Mobile	LTE CAT-M1/NB-IoT/GPRS
Local	WLAN 2.4GHz with WPA2 (Enterprise) Bluetooth Low Energy
Positioning	GPS/GLONASS/Beidou/Galileo

Sensors

Temperature	NTC on-board sensor
Accelerometer	3-axis 24G



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 VDC
Load Dump	ISO 16750-2, U _s ≤ 202V
Automotive transients	ISO 7637-1/2, Test level III

Regulatory

Europe	RED
North America	FCC/ISED
Country Approvals	On request