



Telematics Control Unit



TRACK

asset location,
odometer,
fuel use

PERFORM

driver and
safety
monitoring

DIAGNOSE

remote engine
and system
diagnostics

REDUCE

costs with
efficient asset
deployment

Enables Smart Fleets of the Future

Gain insight, improve decision making and increase fleet safety with real-time access to critical data on speed, location, idle and diagnostic codes. The V4 is a unique Telematics Control Unit that can be deployed in light, medium and heavy-duty vehicles. Built-in LTE, 4G and 3G cellular radios remain compatible despite evolving network changes. Analyze your entire fleet with Zonar's Ground Traffic Control® solution or extend data to your ERP, TMS or other third-party software using our API and custom integration services. Deploy new functionality and additional sensors with Bluetooth® and 802.11 wireless connectivity.

High-precision Location Tracking

With GNSS positioning services, the V4 uses GPS, GLONASS, Galileo or BeiDou satellites to calculate your vehicles location. This provides you with precise location data that's accurate and available wherever your fleet operates.

Features and Capabilities

- High-definition GNSS Location Tracking
- Reliable LTE/4G/3G network
- Dynamic geo-fencing
- True idle, speed and odometer
- Bluetooth® 4.1
- 802.11b/g/n
- SAE J 1708/1587 and J1939 compatible
- 3-year warranty



For more information, visit zonarsystems.com/V4-telematics

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General Specifications

Dimensions:

- 6.0 inches (153 mm) x 3.85 inches (98 mm) x 1.25 inches (32 mm)
- 6.31 inches (161 mm) x 4.03 inches (103 mm) x 1.65 inches (42 mm) with mounting bracket.

CPU:

- 180 MHz
- 256 kB SRAM
- 2 MB flash

Flash Memory:

- eMMC NAND flash
- 4 GB capacity

Navigation:

- GPS/ GLONASS
- GPS data is augmented with QZSS, WAAS, EGNOS, MSAS, and GAGAN
- Up to 2 Hz
- Internal patch antenna
- SMA port for external antenna (3.3V)
- Automatic detection and switching between internal and external antenna

Cellular:

- Category 4 LTE with 3G and 2G fall back
- LTE bands: 2, 4, 5, 7 and 17
- UMTS/3G Bands: 850/900/1700/1900/2100 MHz
- GSM/2G Bands: 850/900/1800/1900 MHz
- Industrial grade embedded SIM (soldered IC)

Wi-Fi:

- 802.11b/g/n, 2.4 GHz

Bluetooth:

- v4.0 dual mode Bluetooth (low energy and classic)

Accelerometer:

- 3-Axis, 12 bit ± 2 g, ± 4 g, ± 8 g
- Up to 800 Hz

Power Backup:

- In the case of V4 external power loss, V4 will attempt to send home a data packet to indicate loss of power.

Operating Temperature:

- -40°C to 85°C, up to 95% relative humidity.
- Intended for installation inside the cab area of heavy-duty vehicles

Interfaces/System Connectivity

Power:

- 8 – 32 VDC
- Device is reverse voltage protected
- Maximum current 500 mA at 12V (no peripherals attached)

Ground:

- The V4 has one ground connection used as a power return. All other ground connections are isolated.

RS-232:

- Two RS232 ports, configurable up to 230400 baud
- Wake on input compatible

General Purpose Inputs:

- Input 0 (Multi-Use Sense) is active low/ground closure only
- Inputs 1-5 support active low/ground closure, and active high/close to battery
- Device can wake on any input

CAN:

- Two CAN interfaces, 250k baud or 500k baud.
- Device can wake on data received on either CAN interface.

J1708:

- One J1587/J1708 interface

Switched Outputs:

- One software switched, 1.0 A current limited, 5V output.
- One software switched, 1.0 A current limited, vehicle voltage (VBATT) output.