



**Simply
Unified**



SU-4000



The SU-4000 is a battery-powered data logger designed to provide GPS asset tracking with the option to connect a wide array of inputs and outputs along with several sensor interfaces.

Notice: batteries are included on all Asset Tracking Devices

FEATURES



TELSTRA 4G CAT M1

CONNECTIVITY

The SU-4000 makes use of the Telstra Network using the 4G Cat M1 modem. Rest assured you're getting the best coverage. Should the SU-4000 leave mobile coverage, data will be stored and uploaded when coverage is available.



REAL-TIME TRACKING

Configure parameters to send updates based on set time intervals (1x, 3x, 5x a day, etc.) or when movement occurs. The adaptive tracking technology detects whenever the device is in motion, increasing the update rate, providing detail when you need it while conserving battery when stationary.



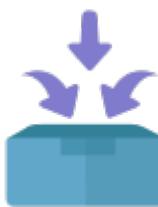
MANY YEARS OF BATTERY LIFE

The SU-4000 is ultra-low power and can run off a set of batteries for many years, including powering sensors. Optional external power is available.



OPTIONAL EXTERNAL POWER

The SU-4000 can be powered from an external source, for example, vehicle power or even solar. In the event, the external power fails the internal batteries will power the SU-4000.



INPUTS AND OUTPUTS

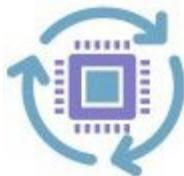
The SU-4000 comes with three digital inputs, two analogue inputs two digital outputs along with a range of interface including SDI-12 and RS-485



OPTIONAL TEMPERATURE SENSOR

The SU-4000 is a perfect solution for remotely recording location and temperature using an optional temperature sensor.

FEATURES

**I²C SENSOR INTERFACE**

The SU-4000 is fitted with an I²C Sensor Interface. The interface allows any I²C sensor, integrate with the SU-4000.

**BATTERY MANAGEMENT**

The SU-4000 has Built-in Battery Management for monitoring battery use and accurate remaining life predictions.

**IP67 RATED**

The SU-4000 is rated to IP67 ensuring the device is dustproof, can withstand high-pressure spray and submersion in water for up to 30 minutes at a depth of 1 meter.

**BLUETOOTH GATEWAY**

The SU-400 includes a Bluetooth® 5.0 Gateway the can detect low-cost Bluetooth asset management and sensor monitoring applications.

**THEFT PROTECTION AND RECOVERY**

Should the worst happen and your vehicle is stolen, activate the recovery mode turn on -live tracking at 30-second intervals for vehicle retrieval.

**RECORD RUN HOURS**

Record engine or other run hours based on movement or input activity to help understand and maximise asset use.

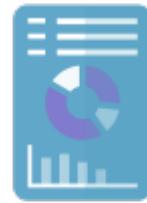
FEATURES

**MOTION ACTIVATED ALERTS**

The SU-4000 has a built-in 3-Axis accelerometer designed to detect motion or high g-force events.

**INTELLIGENT GEOFENCING**

The intelligent geofencing features custom geofencing and alerts. Speed limits can be for specific geofences.

**BUSINESS GRADE REPORTS**

Our comprehensive reporting suite has a wide range of reporting options. If that's enough, create your custom reports. Reports are downloadable at any time. Also, reports can we scheduled to send to any email.

**THIRD-PARTY INTEGRATION**

Easy integration. The SU-4000 provides the option of Third-Party integration. Options include webhook, TCP or HTTPS, Direct and Data Splitting. (Additional fees may apply)

**EASY TO USE SOFTWARE**

The SU-4000 software and APP are straightforward to use. Its extremely initiative and our team are always on hand to provide one-on-one training if needed.

**MAINTENANCE REMINDERS**

Asset maintenance management made easy. The SU-4000 provides reminders that are sent via email or to our App.



24-HOUR SUPPORT

Our customers are provided business hour support from 8.00 am to 8.00 pm Monday to Friday, with 24-hour service for critical support issues.

FEATURES



A calendar icon with the number "14" prominently displayed in the center, representing a 14-day money-back guarantee.

14-DAY MONEY BACK

Worry-free purchase. The SU-4000 comes with a **no-quibble** 14-day money-back guarantee. If you're not happy with your purchase, simply return it.



CONTINUOUS WARRANTY

Relax, you're in great hands. A **continuous warranty** supports the SU-4000 as part of our service plan for complete peace of mind.

SPECIFICATIONS

CONNECTIVITY

4G LTE-M / NB-IoT	uBlox SARA-R410M Modem operates on all major global LTE-M and NB-IoT bands. Supported LTE bands: 1*, 2, 3, 4, 5, 8, 12, 13, 18, 19, 20, 26*, 28 (*roaming bands)
Bluetooth® 5.0 Gateway	Bluetooth® 5.0 gateway reports nearby Bluetooth® tags and sensors for affordable tagged asset management and sensor monitoring.
SIM Size & Access	Internal Micro 3FF SIM

BATTERIES

User-Replaceable Batteries	4 x C
Supported Battery Types	Alkaline OR Lithium Thionyl Chloride (LTC)

LOCATION

Module	uBlox EVA-M8
Constellation	Concurrent GPS / GLONASS
Channels	72 Channel High Sensitivity Receiver
Tracking Sensitivity	-167dBm industry-leading tracking performance
AssistNow Offline	GNSS aiding data (such as ephemeris, time, coarse position) for a faster Time To First Fix (TTFF).
Low Noise Amplifier	GPS signals are boosted by a unique low-noise amplifier (LNA) allowing operation where other units fail.

POWER

Input Voltage	Flexible Power Options: 5 – 16V DC (max) 4 x C Cell Battery holder fitted. Screw terminals for line power.
Sleep Current	<10uA**Average current in lowest power configuration
Back-Up Battery	If line power is connected and batteries are also installed, device will fall back to the 4 x C cells if external power is disconnected.

MECHANICS / DESIGN

Dimensions	L 183 x W 145 x H 40 mm
Weight	296g (564g with batteries)
Housing	ABS Polycarbonate Plastic
IP Rating	IP67 rated housing ensures device can withstand fine dust, high-pressure spray, submersion for 30 mins in 1m of water, and extreme temperatures.

SPECIFICATIONS

Operating Temperature	-20°C to +60°C For operation in extreme temperatures, the device must be fitted with LTC Batteries.
Installation	Multiple installation options for covertly and easily securing the device to assets with screws, bolts, cable ties, rivets, and more. Caters for a number of cable glands (2 fitted as standard) to allow for waterproof cable entry to the housing.
GPS Antenna	Internal
Cellular Antenna	The SU-4000 has a U.FL connector on the PCB that connects to an internal cellular sticker antenna as standard. This offers the option of installing an external antenna if maximum range is required.
3-Axis Accelerometer	3-Axis Accelerometer to detect movement, high G-force events, and more.
Diagnostic LED	Diagnostic LED signifies operation status.
Flash Memory	Store weeks of records if device is out of cellular coverage. Storage capacity for over 10 days of continuous 30-second logging.
INTERFACES	
Analog Inputs	2 x 0-30V Analog Inputs, Auto Ranging, 12-bit ADC 0-5V range: 1.22mV precision 0-30V range: 7.32mV precision
Digital Inputs	3 x Digital Inputs with configurable pull-up/down 0-48V DC input range On/Off thresholds: Pull-up enabled: low at 0.8V, high at 1.0V Pull-down enabled: low at 2.0V, high at 2.4V Can be used for pulse counting
Digital Outputs	2 x Switched Ground digital outputs Easily wired up to control external devices and circuits, for example to turn a lighting tower on / off.
Ignition	Digital inputs can be used as an ignition input to log run hours.
I²C	I ² C (inter-IC communications) is an interface commonly used in sensor modules.
RS-485	RS485 interface supported in hardware. Requires firmware integration to connect to other sensors and devices.
SDI-12	Features SDI-12, commonly used in agricultural sensors and measurement devices for soil moisture probes, temperature, electrical conductivity (EC) of soils, water levels/pressures, other SDI-12 probes, and sensors.
Switched Power Out	Used to control the 3.3V power to external sensors and peripherals. Load limited and short circuit protected.
Switched Sensor Power	Sensor Power (Vout) Used to control the battery power to external sensors and peripherals. Load limited and short circuit protected. Output voltage is the same as supply voltage.
4-20mA inputs	2x 4-20mA The 4-20mA inputs can be used to interface to current loop sensors. 0.025mA precision.



SPECIFICATIONS

SMARTS

Auto-APN	Auto-APN allows the device to analyze the SIM card and select the correct APN details from a list that is pre-loaded in the device's firmware.
Battery Life Monitoring	Built-in Battery Meter for monitoring battery use and remaining life predictions.
Environmental Monitoring	Interface with a range of sensors such as temperature, humidity, moisture, depth, and more.
Geofencing	Create custom geofences and alerts if an asset enters or leaves specific locations.
Geofence Download to Device	Geofences can be downloaded directly to the device from Telematics Guru for enhanced location-based actions and alerts
Impact Detection	Configure impact-detection alerts when G-forces are exceeded by a user-defined threshold.
Periodic or Movement-Based	Configure parameters to send updates based on set time intervals (1x, 3x, 5x a day, etc) or when movement occurs. Adaptive tracking technology detects when the device is on the move and increases the update rate, providing detail when you need it while conserving battery when stationary.
Preventative Maintenance	Set reminders based on distance traveled and run hours to reduce maintenance and repair costs.
Theft Recovery	Switch to Recovery Mode in the case of theft or loss to activate real-time tracking at 30-second intervals for asset retrieval.
Run Hour Monitoring	Capture run hours based on movement to understand and optimize asset utilization.
Sleep Mode	Stationary devices enter sleep mode, switching the update rate to only twice per day until movement occurs to conserve battery life and optimize data usage.

DEVICE MANAGEMENT

Flexible Configuration	Configure device parameters such as heartbeat rate, movement and accelerometer settings, and more to fit any tracking application.
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INTEGRATION

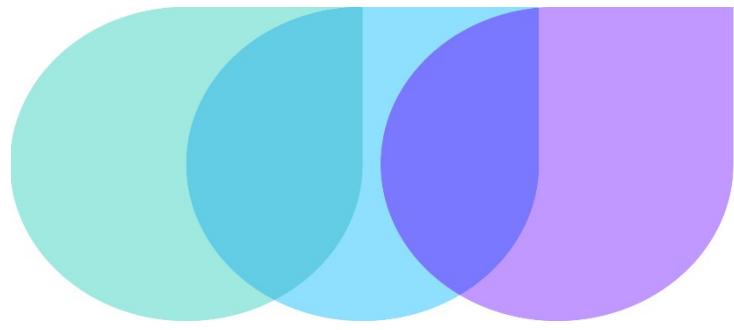
Third-Party Integration	Webhook, TCP or HTTPS, Direct and Data Splitting Integration Options
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PERIPHERALS

Temperature Probe	Temperature Probe
Temperature and Humidity Probe	Temperature and Humidity Probe

WARRANTY

Relax, you're in great hands. A continuous warranty supports the SU-4000 as part of our service plan for complete peace of mind



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