

PART NUMBER S4GTEMP-3000

SYRUS TEMPERATURE ASSET TRACKER CELLULAR 4G LTE-M / NB-IOT

Robust battery-powered or wired GPS tracking device with inputs/outputs, I²C Sensor Interface, and WiFi Positioning for indoor and outdoor asset tracking and sensor monitoring.



KEY FEATURES

Indoor and Outdoor

High-precision GPS/GLONASS tracking device with WiFi Access Point Scanning

Battery-Powered or Wired

 $\label{eq:Flexible Power Options - 3 x AA Batteries with up to 7 years \\ battery life or wired to permanent power \\$

Inputs/Outputs

1 x Analog Input, 2 x Digital Inputs, 1 x Switched Ground Digital Output, 1 x Ignition Digital Input, Switched Power Out



*Sensors Sold Separately

8

Sensor Monitoring

Connect a range of sensors such as temperature, humidity, moisture, depth, and more for monitoring sensitive environments or assets.

MANAGED BY:



CONNECTED BY:



Ultra-Rugged

Interfaces

I²C Sensor Interface

Weatherproof and ultra-rugged IP67 Housing

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TECHNICAL SPECIFICATIONS

CONNECTIVITY		
2G (Optional)	2G: SARA-G350-02S-01	
	850/900/1800/1900 MHz	
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)	
SIM Size & Access	Internal Micro 3FF SIM	

BATTERIES	
User-Replaceable Batteries	3 x AA
Battery Life	Up to 7 years of battery life at
	once-daily position updates, 1 year
	battery life at once-hourly position
	updates. Enable intelligent
	movement-based tracking for longer
	battery life. Battery life calculations
	based on LTE-M connectivity.
Supported Battery Types	Lithium (LiFeS2)
	Lithium Thionyl Chloride (LTC)
	*Please dispose of Lithium batteries in
	a safe and responsible manner.

	LOCATION
Module	uBlox EVA-M8
Constellation	Concurrent GPS / GLONASS
Channels	72 Channel High Sensitivy Receiver
Tracking Sensativity	-167dBM industry-leading tracking
	performance
GNSS Assistance	GNSS almanac data for greater
	sensitivity and position accuracy
Low Noise Amplifier	GPS signals are boosted by a unique
	low-noise amplifier (LNA) allowing
	operation where other units fail
Cell Tower Location	Cell tower fallback for positioning when
	there is no GNSS or WiFi signal
WiFi Positioning	Indoor asset location using Wifi access
	point scanning

CERTIFICATIONS

LTE-M / NB-IoT - FCC, ISED, CE (Doc), 2G - CE (Doc)

Manufacturer's Warranty

WARRANTY One year manufacturer's warranty

P O W E R	
Input Voltage	Flexible Power Options:
	5 - 16V DC (max)
	3 x AA Cell Battery holder fitted
	Screw terminals for line power
Sleep Current	<10uA*
	*Average current in lowest power
	configuration
Backup 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.

MECHA	NICAL SPECS
Dimensions	135 x 90 x 35 mm
Weight	163 g (5.75 oz)
	232 g (8.18 oz) 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
Installation	Compact and Concealable. 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.
Operating Temperature	-20°C to +60°C For operation in extreme tempera- tures, the device must be fitted with LTC Batteries
GPS Antenna	Internal
Cellular Antenna	Internal
RF Antenna	Internal
WiFi Antenna	Internal
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

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TECHNICAL SPECIFICATIONS

	ERFACES
Analog Inputs	1 x 0-30V Analog Inputs,
	Auto Ranging, 12-bit ADC
	0-5V range: 1.22mV precision
	0-30V range: 7.32mV precision
Digital Inputs	2 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
Digital Outputs	1 x Switched Ground digtal output
	Easily wired up to control external
	devices and circuits, for example to
	turn a lighting tower on / of
Ignition	Digital inputs can be used as an
	ignition input to log run hours
²[I²C (inter-IC communications) is an
	interface commonly used in sensor
	modules
Switched Power Out	Used to control the 3.3V power to
	external sensors and peripherals. Load
	limited and short circuit
	protected
DEVICI	E MANAGEMENT
Flexible Configuration	Configure device parameters such as
	position update rate, movement and
	accelerometer settings, and
	more to fit any tracking application.
Pegasus IoT Cloud Server	Manage, monitor, configure, debug,
	update, and restart devices remotely
	from our cloud-based device
	management system.
I N	TEGRATION

SECURITY		
Data Security	Military-level AES-256 Encryption	
	from device to Pegasus IoT Cloud	
	Server to protect the integrity and	
	confidentiality of telematics data.	
	Data forwarded to third-party systems	
	is sent via JSON/HTTPS for end-to-end	
	security.	

S	MARTS
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
Geofence Alerts	The server can use device location to create geofences and alerts if an asset enters or leaves designated locations
Geofence Download to Device	Maximum of 100 Geofences with up to 100 points per geofence
Impact Detection	Configure impact-detection alerts when g-forces are exceeded by a user-defined threshold
Periodic or Movement-Based Tracking	Configure parameters to send updates based on set time intervals 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
Real-time Tracking	Device remains continuously connected while on the move for real-time asset tracking.* *Optional when device is externally powered.
Run Hour Monitoring	Capture run hours based on movement and/or distance traveled to understand and optimize asset utilization





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