TrackingHAWK *IBIS™*

2G/3G/4G

Economical GPS Tracking Unit and Battery Backup

Smart IoT solutions in compact design.

TrackingHAWK *IBIS™* is a fully featured vehicle tracking product designed for easy and reliable installation in automobiles. It is an ideal solution for basic fleet management, automotive insurance, stolen vehicle recovery, vehicle financing, auto rental services, and other vehicle tracking applications where an internal backup battery is required.

Cutting-Edge Technology at an Unbeatable Price

The *IBIS™* high-value tracking unit from Softcruise is compact yet powerful, featuring superior GPS performance. It offers an optional internal battery backup of either 180 mAh or 1100 mAh, a 6-axis accelerometer for motion and tilt sensing, ultra-low power sleep modes, and Inputs/Outputs (I/O) for various applications. The IBIS is a complete IoT device that incorporates next-generation technology.

The *IBIS™* uses advanced GPS technology compatible with 2G and 4G cellular networks, making it suitable for installation in any 12~55 Volts asset. It transmits messages across the cellular network using SMS or TCP messaging servers. It is engineered to significantly reduce cost, power consumption, and size, all while delivering exceptional reliability.

Flexibility

The *IBIS™* utilizes Softcruise's advanced, industry-leading GPS technology to monitor external conditions and support customer-defined, exception-based rules tailored to your application needs. It continuously monitors the vehicle environment, responding instantly to predefined threshold conditions such as time, date, motion, location, geo-zones, inputs, and other event combinations. The firmware can be programmed by Softcruise prior to shipment, at a customer's facility, or updated over-the-air once the unit is installed.

Over-The-Air Serviceability

The *IBIS™* leverages Softcruise's management and maintenance system for over-the-air configuration of parameters and firmware. It offers out-of-the-box, hands-free configuration and automatic post-installation upgrades that monitor unit health across your customer's fleet, identifying issues before they become costly problems.

Experience The Advantage

- 12~55 Volts Vehicles
- Low power sleep mode
- Economical and flexible device
- Easy Cloud Based Configurations
- Built-in 6-axis accelerometer for Motion and tilt sense
- Up to 2 Digital inputs, one 1-wire input, 2 Digital output, 1 Analog input
- Optional built-in battery backup 180 mAh or 1100mAh
- Built-in 512 MB memory for offline locations
- Built-in or external cellular and GPS antenna for easy installations
- Built-in or connector harness
- Over-the-air configuration and firmware updates
- 100% Japanese capacitors
- Bluetooth Configuration & Diagnostics
- 1-Wire Temperature Sensors / Driver Identification & RFID solution

TrackingHAWK *IBIS™*

Specifications

GNSS

Location Technology	GPS, GLONASS
Receiver Type	66 channels
Tracking Sensitivity	–165 dBm
Acquisition Sensitivity	–148 dBm
Re-Acquisition	–156 dBm
Enhancement Technology	SBAS: WAAS, EGNOS, MSAS, GAGAN
Location Accuracy	<2.5m
Location Update Rate	up to 10Hz
AGPS / Location assistance capable Anti-jamming	

Comprehensive I/O

Digital Inputs	2 Digital Inputs (1 for ACC Ignition)
Digital Outputs	2 Open Collector (150mA)
Analog Input	1 AIN or DIN4 1 AIN for External Battery Monitoring
1-Wire	1 Input (supporting 5 Temperature Sensors, 5 iButton Readers & 5 RFID)
Status LED's	GPS and Cellular

Electrical

Input Voltage	9-55 VDC (startup, operating) 7-55 VDC (momentary)
Power Consumption	<2mA @ 12/24 VDC (deep sleep) <20mA @ 12/24 VDC (radio-active sleep) <25mA @ 12/24 VDC (idle IP connection transmit) <115mA @ 12/24 VDC (continuous transmit)
Back Up Battery	(Optional) Lithium-Ion 180 mAh or 1100 mAh

Physical

Dimensions	2.67'' x 2.36'' x 0.78", (68mm x 60mm x 24mm)
Weight	54g

Cellular

Data Support	SMS, TCP Packet data
Operating Bands (MHz)	LTE-TDD, LTE-FDD, 3G, GSM, GPRS

Connectors, SIM Access

Connection Type	8 wire harness
SIM Access	Internal
External GPS	optional SMA (with tamper monitoring, 3V)
External Cellular	optional SMA

Environmental

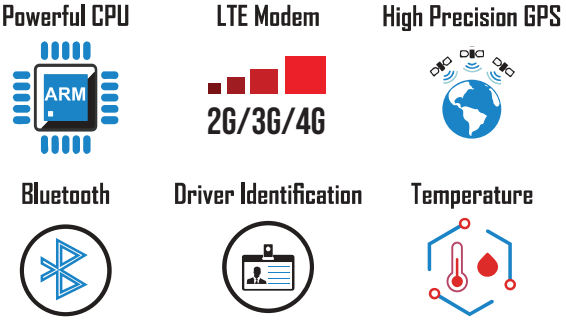
Temperature	-30° to +75° C (connected to primary power) -40° to +85° C (storage)
Humidity	95%RH @ 50° C non-condensing

Mounting

Standard tie-wrap or adhesive

Key Features

- 5,000 buffered messages
- Automatic, Over-the-Air Unit Configuration on Power-up
- Over-the-Air Firmware Download
- Web-Based Device Management
- Authorized driving 1-wire iButton ID
- Super-sensitive GPS (-165dBm)
- Voltage Monitoring and low battery notification



Softcruise

Website: https://www.softcruise.com
Email: hca@softcruise.com
Mobile: +91 73007 37444

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***All specifications are subject to change without prior notice**