

The logo for SicuroGroup, featuring the company name in a white, sans-serif font inside a dark, rounded rectangular box. The background of the entire page is a light gray world map.

SicuroGroup

Military & Government

A larger version of the SicuroGroup logo, centered on the page. It consists of the company name in white, sans-serif font within a dark, rounded rectangular box. The background is a light gray world map.

SicuroGroup

Military & Government

**SicuroGroup** offers high quality military grade technology and GPS tracking products supported by an expert services team and software designed to provide advanced command, control, communications, crisis management and information capability.

SicuroGroup is known for its innovative product development backed by the highest standard of service. We maintain a substantial stock of all of our products, which enables us to offer short lead times to our customers. Training and support services are available for all SicuroGroup products.

We are constantly adding new products to our inventory, please visit [www.sicurogroup.com](http://www.sicurogroup.com) for more information.

## iSTARtrack

### Intuitive C4i & Tracking Platform

Easily Track, Monitor & Communicate with thousands of devices from your laptop or smartphone



**iSTARtrack** is the brainchild of SicuroGroup. Developed to address the need for a superior In Transit Visibility (ITV), In Vehicle Management (IVM) and C4i platform to better fit the requirements of those operating globally supporting: military, government, energy sector and wider projects

**iSTARtrack** is a 128bit secured, password protected, web-based application. It features a host of mapping data to allow the user to choose from the user-friendly lightened version of GoogleEarth, to street level mapping in all major cities worldwide using data from OSM which work perfectly, even in low bandwidth availability environments such as Somalia or Afghanistan

Your project management team can conveniently and securely access the iSTARtrack platform from anywhere via the Internet. Track and monitor assets using a Smartphone or laptop and receive panic alerts by both SMS and email

Manage large or small fleets or personnel easily with **iSTARtrack**, there is no limit to the number or type of GPS devices that can be integrated into the platform. To date **iSTARtrack** has in excess of 150 types of GPS transponders already integrated, and thousands of individual devices, all with the ability to send xml data from our servers in mainland Europe to anywhere in the world – clients currently receiving data in this form include Tapestry Solutions' GDMS platform, NATO's NIRIS/ADAM/EVE/CORSOM and US Government secure platforms by FTP such as IRRIS and iSDDC supporting USC-06

## KEY FEATURES



Interfaces with US Government & NATO systems as required



Multiple Map Sources (inc GoogleEarth™)



User-Friendly intuitive application



Geo-Fence & Proximity Report alerts



SMS & email alerts



2 Way communication with deployed assets



Bandwidth light for use in remote areas



iPad, Galaxy, Playbook & BlackBerry compliant for remote access management



Event logging, replay and full IVMS compliancy

## SIMS

**Situational awareness: keeping track of what's going on around you in a complex and dynamic environment**



SicuroGroup's new Security Information Management System (SIMS): SIMS is a leading-edge visual mapping system that has been designed to complement our current range of services and enhance existing situational awareness, safety and security measures. Through the SIMS platform users have the ability to view and report on serious incidents globally. They can observe and plot activity in near real time via various means such as via an internet connected computer in their Operations Room or via a SmartPhone in the field. The result is a timely consolidated composite view of insurgent, criminal element, natural hazard and civil unrest threats.

### How it's populated:

Information is captured by a team of analysts covering all relevant incidents reported in the media, in-country information gatherers and through SIMS' unique design as an interactive form of intelligence, where the subscribers themselves have the ability to plot incidents. Collectively this allows for a quicker visual representation of near real-time threats.

### SIMS Characteristics:
















Real-time verified (A) and real-time unverified (B) incidents will blink for 24hrs from the time they occur.

A client will also have the option to have email alerts or SMS alerts every time a real-time incident happens.

All incidents will remain on the map for a week, before disappearing and remaining in the database .

Research Filters: You can research for incidents via, date, incident type, source grade, impact, intended target and province, or a collection of them all.

### Examples of incidents covered:

-  IED
-  Complex Attack
-  Small Arms Fire
-  Indirect Fire
-  Kidnapping
-  Political Assassination
-  Murder
-  Asset Attack
-  Road Traffic Accident
-  Civil Unrest
-  Natural Disaster
-  Criminal Activity
-  Threat Warning
-  Pro-Government Security Response
-  Other



**3** COMPREHENSIVE  
3-YEAR WARRANTY

## SONIM XP3340 SENTINEL



### EXTREME RELIABILITY FOR LIFE-SAVING LONE WORKER SAFETY

Built for Life – the Sonim XP3340 Sentinel is the ultimate loneworker workforce critical solution that, together with leading lone worker specialists, provides an ultra rugged end-to-end safety solution that also includes an emergency response call center and uses the voice and data capabilities of a mobile network operator. Custom-designed for vertical markets especially security guards, facilities management personnel and traffic wardens, the XP3340 Sentinel will keep remote workers safe while in isolated and hazardous environments

The Sonim XP3340 Sentinel includes advanced and highly configurable man-down accelerometer technology. Configured over-the-air by the partner monitoring server to match the end user's specific work scenario, the man-down sensor is capable of detecting impact, free-fall, prolonged tilt and no-movement at various thresholds; field proven to detect specific risk events whilst minimizing false alarms. Fully configurable dedicated amber and green buttons enable the key safety functions such as requesting enhanced monitoring, sending a GPS location or call the Emergency Response Center

The phone also enhances safety by enabling calls under the worst conditions. With strong antenna performance, the industry's longest battery life of up to 29 hours of GPS tracking time, the Sonim XP3340 SENTINEL easily supports 16 hour shifts with GPS and 5 hours of talk time. With an active noise cancelling microphone, and loud audio with a 23mm speaker, protected by a GORE® protective vent, life-saving communications aren't disrupted. The Sonim XP3340 Sentinel is fully water submersible (IP-68 rated) MIL-810G certified and boasts enhanced usability with widely-spaced keys for ease of use with gloved hands and a higher resolution display with good outdoor visibility which also contribute to dependability that saves lives

Backed by Sonim's industry-leading 3-Year Comprehensive Warranty, the Sonim XP3340 Sentinel will keep you safe and connected – no matter where you are at all times

### KEY FEATURES



**LONE WORKER APPLICATION WITH PROFESSIONAL GPS**  
3 Dedicated colour coded keys



**MAN DOWN FUNCTION**  
3 Axis accelerometer



**SONIM RUGGED PERFORMANCE STANDARDS CERTIFIED (RPS)**  
Tested and proven rugged



**IP-68 SUBMERSIBLE TO 2 METERS FOR 1 HOUR IN WATER**  
Protected against damage from rain, fog, and salt air



**BEYOND MIL SPEC-810G DROP TEST**  
Withstands 2 meter drops onto concrete



**SCREEN TOUGHNESS**  
Corning® Gorilla® Glass for extreme shock & scratch resistance



**LONG BATTERY LIFE**  
Up to 29 Hrs of GPS Tracking



**NOISE CANCELLATION**  
Omni-directional microphone with noise cancellation



**IP-68 IMPERVIOUS TO DUST AND MICRO-PARTICLES**  
Non-porous casing blocks entry of micro-particles



**ACCESSIBLE KEYPAD**  
Widely spaced keys for ease of use with gloved hands



**GEOFENCING**  
Alerts when crossing zone boundaries



**3-YEAR COMPREHENSIVE WARRANTY**  
Also covers accidental damage

## TECHNICAL SPECIFICATIONS

### SONIM XP3340 SENTINEL

#### RUGGEDIZATION

- IP-68 certification, submersible to 2 meters for 1 hour
- External speaker protected by a waterproof GORE™ Protective Vents
- MIL-810G certification for salt, fog, humidity, transport shock, and thermal shock
- Hardened rubber molded to Fiberglass casing mix by dual injection
- Rated to 2 meter drop onto concrete from any angle
- Vibration protection from 5Hz to 500Hz and shock resistant up to 4G
- Non-porous casing blocks entry of dust and micro-particles
- Operational range -20°C to +55°C
- Shock & scratch resistant 1.5mm thick Corning® Gorilla® Glass screen
- Widely spaced keys for ease of use with gloved hands
- Impact resistant up to 5J on housing and 2J of impact energy on screen (equivalent of a 4 meter drop of a 50g steel ball on the display)

#### KEY FEATURES

- Sophisticated man down sensor (3 axis accelerometer, configurable with 4 states) to minimize false alarms
- High GPS performance with faster position fixes, high accuracy & sensitivity
- 2 inch bright (typ. 280cd/m<sup>2</sup>) high-resolution display for high visibility
- Noise cancelling microphone
- A-GPS (SUPL support)
- JAVA MIDP 2.0/CLDC 1.1 device
- 2 MP camera with LED Flash
- LED torch light
- MicroSD card slot (up to 16 GB card)
- FM Radio
- Media Player

#### CORE PLATFORM/FUNCTIONS

- MediaTek MT6235 platform
- GSM quad-band (850,900, 1800,1900 MHz)
- GPRS, EDGE class 12
- Bluetooth (2.1) with DUN, SPP, HSP, HFP, OPP, PBAP
- WAP 2.0 (XHTML)
- SMS, MMS (text, image, audio, video) - up to 3000 messages
- PC Tools, for contact and calendar synchronisation with MS Office
- Support for up to 21 languages

#### BATTERY

- 1750 mAh with 20 to 24 Hrs Talk Time, over 800 Hrs Standby Time
- Lone Worker: up to 29 hours for GPS tracking

#### PHYSICAL CHARACTERISTICS

- Size: 126mm x 60mm x 25mm
- Weight: 185 grams
- GCF/CE certifications
- 7 soft keys/10 programmable short-cuts
- 3.5mm waterproof headset and USB data ports (proprietary cable)
- Dedicated volume keys

#### AUDIO SYSTEM

- One single 23mm diameter water resistant speaker specially

#### MULTIMEDIA

- |                |                          |
|----------------|--------------------------|
| Audio Formats: | Video Formats:           |
| • MP3          | • 3gp                    |
| • AAC          | • MPEG4 (simple profile) |
| • WAV          |                          |

#### DISPLAY

- 2 inch, QVGA 240x320 resolution
- 30x40mm for display bar + 10 rows of data

#### LONE WORKER APPLICATION

- 4 highly configurable states
- **Simple:** sends configurable heartbeat messages and waits for manual alarm via long press of red side key
- **Tracking:** sends GPS position on configurable intervals. Under 40 sec TTFF in good GPS conditions
- **Man down:** monitors accelerometer for man down events, sends alerts to server
- **Alarm:** sends current position to monitoring centre, calls Emergency Response Centre (ERC)
- Meets the lone worker device requirements of BS8484 (UK) and DIN 0825-11 (Germany)
- Configuration over the air, via Java application or via Bluetooth from a PC
- Secure communications with server using encrypted EDGE/GPRS/XML or SMS
- Lone worker alarms take priority over incoming GSM calls that are not from an ERC number
- Ability to auto-answer ERC calls to the speaker phone
- High priority alarms override other ringing tones
- Geofencing: entry/exit alerts. Up to 10 circular or rectangular zones

#### STANDARD ACCESSORIES

- Electrical wall charger
- Belt clip
- Screwdriver
- Stereo wired headset
- USB cable
- 3.5 mm USB adaptor

#### OPTIONAL ACCESSORIES

- Car charger
- Rugged belt clip

#### THIRD PARTY BLUETOOTH ACCESSORIES

- Bluetooth headsets:

Sony Ericsson:	Motorola:
HBH-GV435	H350, H500
HBH-GV435a	Jawbone
HBH-PV703	Jabra:
Plantronics:	BT 5020
370, Voyager 510	JX10
Voyager 520	Bluetrek X3
Nokia:	
BH100, BH 900,	Invisio G5
H-803, BH 209	Sennheiser VMX 100
Samsung WEP 200	LG HBM – 310
	Plantronics 590
- Bluetooth Carkits:

Parrot:	Jabra SP5050
CK3100, NOMAD	Motorola T305
Blue Ant	
Sony Ericsson HCB-120	



## Iridium Extreme

### Smart tracking with 2-way global coverage

Iridium Extreme is the toughest and smartest satellite phone to offer the fully integrated services of customizable GPS, online tracking and programmable emergency notification to personalized contacts

Providing two-way global coverage through real time tracking, it enhances your business efficiencies, improves military and emergency response and track critical assets or simply keep family and friends up to date



### CAPABILITIES

Access users through on-demand tracking with the added benefit of two-way global coverage.

With a Satellite Emergency Notification Device (SEND) compliant SOS button design, Iridium Extreme will alert your programmed contact of your location and will help create a two-way connection to assist in the response

Ensure safety of remote personnel. Monitor employees en route through position updates and geo-fencing











Use scheduled check-ins to instruct daily missions

Reliable, near real-time communications services customizable for virtually every industry

Disable tracking on demand for stealth operations

Allows you to send an SMS text message with your exact location co-ordinates to anyone viewable on an online map, from anywhere

### KEY FEATURES

-  Compact physical footprint for streamlined portability
-  Intuitive user interface for out-of-the-box ease of use
-  Water, shock and dust resistance for unparalleled durability
-  Enhanced SMS and email messaging capability
-  Programmable, GPS-enabled, one-touch emergency SOS button
-  Integrated speakerphone
-  Headset and hands-free capability
-  Internally stowed antenna
-  Mini-USB data port
-  Military-grade durability-MIL-816 STD
-  High Ingress Protection rating - IP65

# AXTARIS

Real-time, Iridium Based Global Personal Tracker



## CAPABILITIES

Quickly locate and track personnel globally

Monitor personnel from desktop or smartphone using the iSTARtrack platform

Easily mounted on vehicle with external cradle

Pocket-size, self-contained satellite tracker

Waypoint softkey sends and/or saves waypoints (interested landmarks) for later retrieval

Easy user configuration of customized settings through the Axtaris on-screen menus and secure user web site

Rechargeable internal battery can send a position report every hour for up to two months

## COMMUNICATION

Worldwide tracking, messaging and alerting on the Iridium satellite system

2-way communication

On-screen keyboards allow freetext & canned messages to ensure accurate and simple communication













Emergency button is used for immediate emergency/alert notifications

Data packaged in standard or 256-bit AES encrypted format

Data can also be sent in encrypted PECOS formats to include Brevity codes

1-button transmission of quick "check-in" message

## KEY FEATURES

-  Ultra-low power consumption
-  Lightweight, slim design
-  Integrated motion sensor
-  Automatic location reports
-  Guarded emergency alert switch
-  Free-text & canned messaging
-  Data logging
-  256-bit AES encryption
-  Real-time, pole-to-pole coverage
-  Internal rechargeable battery
-  USB interface
-  50-channel GPS receiver

## AXTARIS SPECIFICATIONS

### Capabilities

- Worldwide two-way messaging & tracking
- AES 256-Bit encryption- transmit & receive
- Ultra-low power consumption

### Environmental

- Temperature: -40°C to +85°C
- Humidity: < 75% RH

### Physical

- Color: Black
- Weight: Approx. 185g
- Dimensions: 10cm x 5.6cm x 2cm
- High-resolution LCD display

### Power

- Internal rechargeable 1.95 A-Hr rechargeable Li-Ion battery
- Input Voltage Range: 2.7VDC to 5.5VDC
- Input Nominal Voltage: 4.0VDC
- Power Input Type: External DC power or internal battery

### GPS Receiver

- Receiver Type: 1575.42 Mhz (L1), 50-channel, C/A code
- Accuracy: 2.5m CEP
- Update Rate: 4 Hz
- Start-up Times: <1 sec hot start, 29 sec warm start, 29 sec cold start
- Sensitivity: -160 dBm

### Iridium RF Board

- Operating Frequency: 1616 to 1626.5 MHz
- Link Margin Downlink: 13 dB average
- Link Margin Uplink: 7 dB average
- Average Power Transmission: 1.0W



## SHADOW

GPS/GPRS PERSONNEL TRACKER



**SHADOW** is the newly released compact personnel tracker that utilizes the latest quadband technology and features, such as motion sensing to allow the carrier to be tracked and assisted globally utilizing local GPRS networks with a GSM SMS fallback when data coverage does not exist

Activating the Alarm will trigger a one way voice call to SicuroGroup operations centers who's staff will manage your situation

## FEATURES



Quadband GSM Modem



20 Channel Ublox GPS



Low Power Consumption



SOS Alert including one way voice



GPRS/SMS configured from the iSTARtrack platform



Motion Sensing/Geo-Fencing/  
Low battery alarm

## Iridium Satellite Phone 9555

The Iridium 9555 satellite phone is compact, light, and easy to use but with sufficient ruggedness to weather adverse conditions



### CAPABILITIES

**Rugged and reliable:** The Iridium 9555 is engineered to withstand the world's toughest environments, so the world's toughest customers can depend on it as a critical lifeline wherever their operations take them.

**Compact:** The Iridium 9555 is a relatively small, yet extremely powerful handset. With features such as a stowed antenna, the 9555 is far more ergonomic than other handsets.

**Iridium SMS:** The improved SMS service offers mobile customers the only reliable lifeline to quickly and easily communicate critical information with employees and loved ones the world over. Messaging service is two-way, allowing Iridium users to send, receive, and respond to messages that are stored for up to seven days on the network and automatically delivered when phones are powered on.

### FEATURES

-  Industrial-grade design for unparalleled durability
-  Compact physical footprint for streamlined portability
-  Intuitive user interface for out-of-the-box functionality
-  Enhanced SMS and email messaging capability
-  Integrated speakerphone
-  Headset and hands-free capability
-  Internally stowed antenna
-  Mini-USB data port and support for phone as modem
-  21 supported menu languages
-  Pre-programmable International Access Code (00 or +)

## IRIDIUM 9555 SPEACIFICATIONS

### Physical

- Dimensions: 143 mm (L) x 55 mm (W) x 30 mm (D)
- Weight: 266 g (9.4 oz)
- Operating Temperature Range: -10 °C to +55 °C

### Duration

- Standby time: up to 30 hours
- Talk time: up to 3.1 hours

### Display

- 200 character illuminated graphic display
- Volume, signal and battery strength meters
- Illuminated weather-resistant keypad

### Memory

- 100-entry internal address book, with capacity for multiple phone numbers, email addresses and notes
- SIM card address book with 155-entry capacity
- Call history retains received, missed and dialed calls

### Usage Control Features

- User-configurable call timers to manage costs
- Keypad lock and PIN lock for additional security

### Iridium 9555 satellite phone package includes:

AC charger, international plug kit, DC travel charger, hands-free headset, leather case, auxiliary antenna adapter, 5' external auxiliary antenna, USB data cable, quick-start guide, user guide, and CD-ROM

## ORBIT

Highly acclaimed, robust and versatile Inmarsat terminal



### CAPABILITIES

Locate and track fleets and cargo

Monitor and control fixed and mobile assets

Global coverage on the Inmarsat satellite systems network

Provides reliable two-way communication and 5 Ocean Region coverage

Quick programming and customizing

Offers low power modes of operation designed to allow you to deploy the terminal in remote unmanned locations where long battery life is critical

Customizable reporting allows the user to be informed of specific events and maintain low messaging costs

Messages sent via secure systems

Enables monitoring and control of local devices through four programmable input/output feeds

Programming capabilities allow for

- 128 Actions
- 64 Alarms
- 64 Timers
- 32 Data transformers
- 128 Geofences (circular, rectangular, polygons)

### KEY FEATURES



TWO-WAY COMMUNICATION



SEAMLESS GLOBAL  
COVERAGE ON THE  
INMARSAT SATELLITE  
NETWORK



CUSTOMIZABLE & EASY  
PROGRAMMING INTERFACE



LOW MESSAGE LATENCY



EXCEPTION-BASED  
REPORTING



LOW POWER CONSUMPTION



DISCREET INPUT/OUTPUT  
FEEDS



OVER-THE-AIR  
PROGRAMMING



A VARIETY OF MESSAGING  
OPTIONS

## ORBIT SPECIFICATIONS

### Environmental

- Temperature -40°C to +70°C
- Ingress protection rating IP67/NEMA-4X
- Shock Half sine 6ms, 300m/s
- Humidity 95% @ +30°C non-condensing

### Physical

- **Weight 500g**
- Dimensions 160mm (diameter) x 47mm (height)

### Frequency Range

- Transmit 1626.5 MHz to 1660.5 MHz; 32-FSK
- Receive 1525.0 MHz to 1559.0 MHz; 2-FSK

### Elevation Angle Range 0° to +90°

### Electrical

- Input Voltage 9VDC to 32VDC
- Power Consumption
  - o Transmit mode: 7.6W
  - o Tracking mode: (GPS on): 0.9W
  - o Sleep: 3mW
- Mating Connector Conxall Mini-Con-X® 6282-8SG-3DC

### Satellite Messaging

- From-terminal 10.5 bytes or 25.5 bytes
- To-terminal 4 alert codes +up to 100 bytes

### GPS

- Channels 16; 1575.42 MHz
- Acquisition Cold start 34s
- Accuracy 2.5m CEP; 5.0m SEP

### Memory

- Data log capacity 320kb; up to 17,200 positions

### External Interfaces

- Serial
- RS232:console interface
- Supports optional NMEA output
- Password-protected access
- Analog/Digital 4 Software-configurable input/output
- Digital or 10-bit A/D input
- Digital output; max sink 250mA
- 4-20mA current detection (pin 8 only)

### Certification

- FCC Compliant
- Satellite Inmarsat D+/IsataM2M Type Approved
- RoHS
- CE Mark (R&TTE)
- Anatel IEC/EN 60945

# Limpet Series

## Limpet/R/RX

Rechargeable Global Tracking & Monitoring Terminal



## CAPABILITIES

Locate and track fleets and cargo

Monitor fixed and transitory assets – containers, trucks, etc.

Global coverage on the Inmarsat satellite network

Requires no user/operator interface once deployed

Easily monitored from desktop or smartphone on the iSTARtrack platform

Remote terminals with a choice of sensor monitoring options

Alerts can be programmed to deliver to email & phone

Operates in the most demanding environments

Attaches easily with magnetic feet or with fixed mounting points, providing greater flexibility for use

## KEY FEATURES



COMPACT, SINGLE-PIECE UNIT



INTEGRAL RECHARGEABLE BATTERY WITH LOW CAPACITY ALARM



BATTERY CAN LAST UP TO 7 YEARS



CONFIGURABLE REPORTING INTERVALS AND REMOTE POLLING



ABILITY TO INTERFACE WITH FUEL THEFT SENSOR, TEMPERATURE SENSOR, CONTAINER BREACH SENSOR AND PANIC BUTTON



ANTI-TAMPERING SYSTEM AS STANDARD

## LIMPET SERIES SPECIFICATIONS

### Capabilities

- Worldwide tracking & monitoring
- Configurable reporting intervals and remote polling
- Integral, rechargeable battery - multiple options

### Environmental

- Temperature -35°C to +55°C
- Ingress protection rating IP66
- Humidity 95% @ +40°C non-condensing

### Physical

- Weight 1.3kg
- Dimensions 247mm x 178mm x 48mm

### Frequency Range

- Transmit 1626.5 MHz to 1660.5 MHz
- Receive 1525.0 MHz to 1559.0 MHz
- GPS 1575.42 ± 1.0 MHz

### Elevation Angle Range 0° to 90°

### Transmitter

- EIRP 0-9dBW
- Tx burst duration 2s or 8s

### Receiver

- G/T ≥ -25dB/K at EL = 30°
- Modulation 32-ary FSK, 20Hz tone spacing

### GPS

- Channels 50
- Time to first fix (typical)
  - o Cold start <29s
  - o Hot start <1s (GPS was off for less than 2 hours)

### Certification

- FCC Compliant
- Inmarsat Type Approved
- IP66
- CE

## DIABLO

### Dual Mode IVMS & Blue Force Tracking System

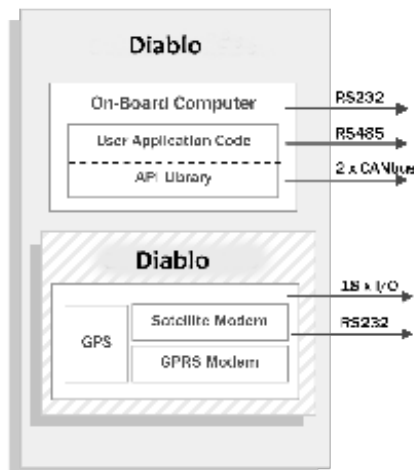
Versatile and customizable, the Diablo series of terminals are equipped with both satellite and cellular modems to allow asset owners to locate, communicate and monitor devices for a whole host of events including panic, impact and aggressive driving anywhere, anytime and at the lowest cost













When in range of cellular networks, the Diablo dual-mode terminal uses cellular frequencies to communicate vehicle location and other vital information. The terminal automatically switches to satellite service when out of cellular reach, ensuring constant visibility and communication

In addition to dualcommunication capability, the Diablo features an on-board 3D accelerometer and computer and is equipped with ports to connect to devices like temperature sensors or more intuitive devices such as Garmin allowing for driver identification, on-board mapping and 2 way messaging

Additional serial and CANbus interfaces allow functions like connecting to RS485 sensor networks or sending vehicle diagnostic and performance information



### BENEFITS

-  Track, monitor, control and communicate with assets regardless of whether cellular coverage is available with a satellite/cellular solution
-  Keep wireless costs down with configuration capabilities and intelligent message routing
-  Create customized tracking solutions including driver and fuel monitoring applications with the on-board computer and 3D accelerometer in conjunction with iSTARtrack our C4i and IVMS platform
-  Collect, analyse and send engine performance and vehicle diagnostic information with J1939/CANbus and J1708/RS485 interfaces
-  Monitor and transmit alarms/events from devices that support Modbus® for fixed asset Oil & Gas equipment monitoring
-  Send text messages and barcodes by connecting text-messaging terminals and barcode readers to the RS232 serial interface
-  Receive immediate notification of events or regular updates while keeping costs down with terminal configuration capabilities
-  Store historical data in memory and retrieve information when convenient and cost-effective
-  Counteract malicious security threats with GPS and GPRS signal jamming detection technology
-  Quickly customize the operation of the terminal and add new features without the costs of dispatching a technician

## DIABLO SATELLITE/GPRS TERMINAL

### PHYSICAL

- Size
- Transceiver: 155 x 124 x 41 mm
  - Satellite antenna: 127 x 93 x 23 mm

- Mass
- Transceiver: ~300 g
  - Satellite antenna: 400 g (with 5 m cable)

### ENVIRONMENTAL

- Operating Temperature
- Transceiver: -30°C to +65°C
  - Satellite antenna: -40°C to +85°C
  - GPRS antenna: -25°C to +70°C

- Storage Temperature
- Transceiver and antennas: -40°C to +85°C

- Relative Humidity
- 95% RH @ +30°C non-condensing

- Dust & Water Ingress
- Transceiver: IP40/NEMA1
  - Satellite antenna: IP67/NEMA-4X

- Vibration
- 5-20 Hz; 1.92 m2/s3 random noise
  - 20-500 Hz; -3dB octave random noise

- Shock (survival)
- Half sine 6ms, 300 m/s2

### ELECTRICAL

- Input Voltage
- 9 to 32 VDC

- Diablo Power Consumption (Typical @12VDC, 22°C)
- Transmit mode: 10.3W (satellite)
  - Tracking mode (GPS on, GPRS on): 1.2W
  - Hibernate mode: 0.3mW

- Diablo Power Consumption (Typical @12VDC, 22°C)
- Transmit mode: 10.6W (satellite)
  - Tracking mode (GPS on, GPRS on): 1.4W
  - Hibernate mode: 0.6mW

- Mating Connector
- Transceiver I/O: JAE IL-AG5-30S-D3C1

### SATELLITE COMMUNICATIONS (ISATM2M)

- Frequency
- Rx: 1525.0 to 1559.0 MHz
  - Tx: 1626.5 to 1660.5 MHz

- EIRP
- 9 dBW max

- Elevation Angle
- 0 to +90 degrees

### GSM/GPRS COMMUNICATIONS

- Frequency
- 850/900/1800/1900 MHz
- SIM Card
- 3.3 V SIM (Customer Supplied)
- Security
- GPRS signal jamming detection

### GPS

- Channels
- 16 channels; 1575.42 MHz
- Acquisition
- Cold-start: 34s; SuperSense -148dBm
- Accuracy
- 3 m CEP; 5 m SEP
- Security
- GPS signal jamming detection

### CERTIFICATIONS

- Satellite
- Inmarsat IsatM2M Type Approval
- Regulatory
- FCC, PTCRB, RoHS, CE Mark (R&TTE), Anatel, IC pending

### DATA LOG

- Capacity
- 320 kB (17,200 pts) from GPRS, Satellite or RS232

### PROGRAMMING CAPABILITIES

- Script Logic
- 128 Actions; 64 Alarms; 64 Timers; 32 Data transformers, 128 polygon geofences

- On-Board Computer (Diablo)
- Bus Application Controller with C-programming environment, API library, 256kB program memory, 30kB SRAM, 16MB flash

### EXTERNAL INTERFACES

- Diablo
- 1 x RS232: 1 console interface, optional NMEA output

- 18 configurable analog or digital inputs/outputs

- Diablo
- 2 x RS232: 1 console interface, optional NMEA output
  - 1 x RS485; support for J1708 and Modbus protocol
  - Up to 2 CANbus ports; support for J1939 protocol
  - 18 configurable analog or digital inputs/outputs
  - 3-axis accelerometer

### MESSAGE SIZE

- From-Mobile
- Up to 192 bytes (IsatM2M); 200-bytes GPRS)

- To-Mobile
- Up to 100 bytes (IsatM2M); 200-bytes GPRS)

### ORDERING CODES

Note: All terminals include satellite antenna (5m cable, Fakra) and GPRS antenna (2.5m cable, SMA). Unpackaged antennas, transceivers and variable length cables are available.

- SM200288-GS5
- Diablo, side-mount
- SM200288-GM5
- Diablo, side/magnet-mount
- SM200288-GR5
- Diablo, bottom-mount
- SM200289-GS5
- Diablo side-mount
- SM200289-GM5
- Diablo, side/magnet mount
- SM200289-GR5
- Diablo, bottom mount
- SM200268
- Evaluation Flex-Kit: Includes cables, tool kits, airtime, support and training. Order terminal separately.



## Gheist

### Vehicle Event Logger & Tracking Units













Gheist provides enhanced functionality and capabilities for advanced asset tracking and management services and solutions



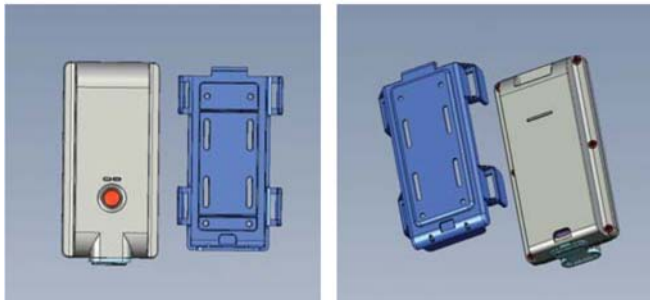
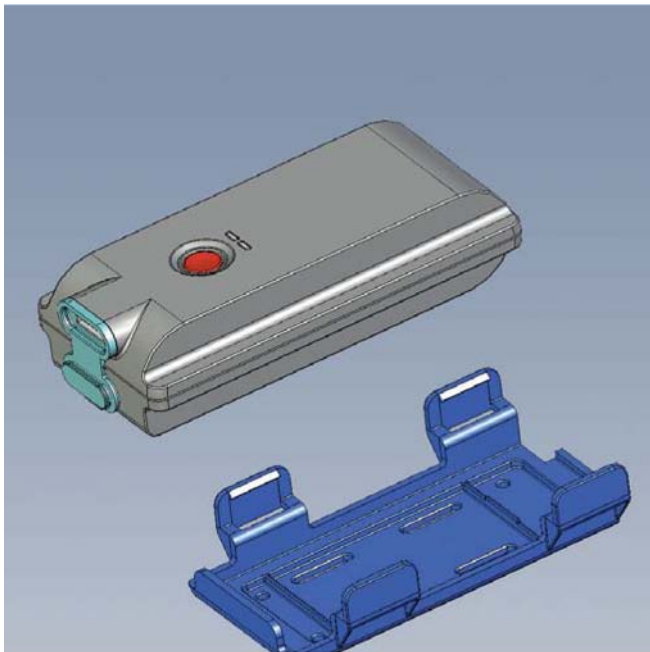
### Capabilities:

- Communication cost management - enabling lower communication costs in normal and roaming operating environments
- Advanced power management for extended battery life
- Durability and long-life make it ideal for tracking trailers, trains, containers, high-value assets, and more
- Tracks your asset movements automatically, providing up-to-date and accurate data in real time
- Enabling cost-effective asset management that helps bottom line improvement
- Provides accurate, updated information about past, current and future asset locations, and ensures that the asset is always in the right place at the right time
- Scheduling of maintenance or services for equipment made simple
- Suitable for a variety of tracking applications such as:
  - Security:** Tracking assets in reference to pre-defined Geo Fences
  - Logistics, Transportation, Distribution Solutions:** Tracking vehicles, trailers, trains, individual high value boxes, and delivery scheduling
  - Police and Special Forces:** Tracking and tagging investigations
  - Mining Industry:** Tracking equipment loads
  - Supply Chain:** Tracking high value assets from packaging and manufacturing to distribution and point-of-sale

### Key Features:

-  Communication channel redundancy: GPRS+SMS
-  3D accelerometer for motion/accident sensing and advanced communication cost and power management capabilities
-  Forbidden and preferred GSM operators
-  Integrated SIRFIII GPS technology
-  Built in Geo-fence support
-  Online event reporting & full event data logging
-  OTA configurable and upgradeable
-  Push button programmable to be On/Off/Test/Panic
-  Tamper switch; Two monitoring LED's
-  Long-life lithium polymer battery: 13.6 AHr rechargeable battery providing over three years of autonomous operation
-  IP67 Standards
-  Cost Savings: The compact size Gheist reduces communication costs, theft, and loss of valuable assets.

## MECHANICAL SPECIFICATION



## GHEIST SPECIFICATION

Outputs	2 Optional General Purpose Open Collectors
Inputs	2 Optional Digital/Analog Inputs Push Button and Tamper Switch
Accelerometer	3D, movement detection
Interface	2 Monitoring LEDs
Communication Methods	TCP/IP or UDP/IP over GPRS Class B, Multislot 10 with PDU SMS as a Backup
Frequency Bands	GSM 850 and 900MHz, DCS 1800 and PCS 1900MHZ
GPS Technology	SiRF III, 20 Receiving Channels
Serial Communication	RS232 (9600bps, no parity 1 stop bit)
Battery	Internal Rechargeable 3.7V, 13.6 AHr, Li-Polymer Battery
Dimensions	154.5mm x 81.2mm x 44.80mm
Temperature Range	-20°C to +45°C

\* The Gheist unit provides 2 I/O lines. The wires can be used either as analog/digital inputs or as an open collector output.

## UAV-i100



### CAPABILITIES

Gain enhanced situational awareness and mitigate risks of unknown environments with the small & practical UAV-i1000

Quickly deployable, the intuitive design enables easy operation

Vertical take off and landing (VTOL). Autonomous Unmanned Micro Aerial Vehicle (AUMAV)

Robust construction made from carbon fibre reinforced plastics, providing a shield against electromagnetic interferences

Maintain position hold and autonomous waypoint navigation through optional GPS

With the waypoint navigation guidance our drones can be operated fully autonomous including auto start and auto landing

Depending on payload, temperature and wind the UAV-i1000 can achieve up to 80 minutes of flight time










The UAV-i1000 has a range of almost 1000 meters

Designed to carry cameras and other equipment

Onboard flight recorder permits a post-flight analysis in real-time

Security features prevent from crashing - autonomous landing on low battery or missing radio signal

### KEY FEATURES

-  Easy to use
-  Quick to deploy
-  Robust design for larger payload than UAV-iXS200
-  Intelligent design
-  Robust, carbon fibre reinforced plastics
-  Onboard flight recorder
-  Dimensions: 140cm
-  Weight: 3.9kg
-  Range: >1000 metres

**SicuroGroup**

Military & Government

# **Covert Tracking Systems & Surveillance Devices**

**SicuroGroup**

Military & Government

SicuroGroup offers some of the most innovative tracking and locating solutions available for covert surveillance, intelligence gathering operations, executive protection, special operations teams, high value goods, assets and vehicles

Using cutting edge technology, SicuroGroup can provide a wide range of options for a variety of covert or sensitive operations

**Details available on request**

## RoboRCN-XT

Throwable, mobile reconnaissance device

Video reconnaissance in cluttered environments & rugged terrain



### Rugged Design

Equipped with large motors, robust drive trains, and aggressive wheels, the RoboRCN-XT can maneuver through cluttered environments; easily climbing through gravel and sand; and over rocks, door thresholds, and clothing

Constructed with a titanium shell, the RoboRCN-XT can survive repeated throws of 30m and vertical drops of 10m, and is safe to use in fog, mist and rain

### Real-time Video

Access real-time information with the live video feed from RoboRCN-XT. The robot's black-and-white image sensor has a 60-degree field of view on both the horizontal and vertical axis, and can transmit a 360-degree scan of a room in five seconds

The RoboRCN-XT features an infrared optical system that is automatically enabled when the ambient light is low, giving you a clear view of objects 7m away, even in extremely dark environments









The RoboRCN-XT can transmit live video at least 300 feet outdoors and 100 feet indoors – through walls, doors and windows

### Operation

A matte black finish makes the robot difficult to see and it operates at a maximum of 20 decibels – quieter than a whisper

RoboRCN-XT is lightweight, and compact making it extremely easy to carry and throw. It may be specified in any of three frequencies, allowing you to operate up to three robots in the same environment at the same time

### KEY FEATURES

-  Maneuvers quickly through cluttered or rugged environments
-  Instantaneous video reconnaissance
-  Compact & lightweight
-  Can be deployed in less than 5 seconds
-  Automated infrared optical system
-  Night vision
-  Easily controlled with single joystick on OCU
-  Survives repeated throws of 30m and vertical drops of 10m
-  Operate up to 3 robots in same area at the same time

SicuroGroup



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