

# ATrack AT1 Pro

GPRS/GPS Series  
Battery Backup GPS Tracking Unit



### Experience The Advantage

- GSM/GPRS configurations
- Economical and flexible device
- 12/24 volt vehicles
- Superior cellular and GPS performance
- Optional Built-in 3-axis accelerometer for motion, and tilt sense
- Low power sleep power modes
- Up to three positive inputs, one negative input, two output, one 1-wire input, one analog input & one RS-232\* port
- Optional built-in battery backup
- 200 geo-fences, support polygonal
- In-built 64 MB memory for offline locations
- Built-in or external cellular and GPS antenna for easy installations
- Built-in or connectorized harness
- Over-the-air configuration and firmware updates
- 100% Japanese capacitors
- Bluetooth Configuration & Diagnostics

**ATrack AT1 Pro**™ is a full-featured vehicle tracking product designed for easy and reliable installation in automobiles. The **AT1**™ is an ideal solution for basic fleet, automotive insurance, stolen vehicle, vehicle finance, auto rental and other vehicle track and trace applications where an internal back-up battery is required.

### Competitive Price, Competitive Technology, Competitive Edge

The AT1™ high-value tracking unit from ATrack features a small size with superior GPS performance, an optional internal 180 mAh or 1000 mAh back-up battery, 3-axis accelerometer for motion and tilt sense, ultra low sleep modes, Inputs/Outputs (I/O) for various applications. The AT1™ is a complete vehicle tracking and communications device incorporating next-generation, supersensitive

GPS technology on GSM/GPRS cellular networks for installation in any 12 or 24 volt vehicle. Superior internal antennas for both cellular and GPS eliminate the need for wired antennas and make the AT1™ mountable virtually anywhere in the vehicle for easy, inexpensive installations. Messages are transported across the cellular network using SMS or TCP messaging providing a reliable communications link between the device and your application servers. The AT1™ is designed to dramatically reduce cost, power and size while providing excellent reliability.

### Flexibility

The AT1™ employs ATrack advanced industry leading on-board alert engine, CEG™ (Customizable Event Generator) to monitor external conditions and support customer-defined exception-based rules to meet your application requirements. CEG monitors the vehicle environment and responds instantaneously to pre-defined threshold conditions related to time, date, motion, location, geo-zone, input and other event combinations. This behavior can be programmed by Softcruise before shipment, at a customer's facility, or over-the-air once the unit has been fielded.

### Over-The-Air Serviceability

The AT1™ leverages ATrack management and maintenance system, UCLS™ (Updates, Configuration, and Logistics System), for over-the-air configuration parameters, CEG rules, and firmware. The AT1™ offers out-of-the-box hands free configuration and automatic post-installation upgrades that can monitor unit health status across your customers' fleets and identify issues before they become expensive problems.

# Specifications **AT1 Pro**

## General

Network Technology	GPRS/EDGE/HSPA
Data Modes	TCP Packet data and SMS
Location Technology	66 channel GNSS
Operating Voltage	12 and 24 volt vehicle systems

## GPS

Location Technology	GPS, GLONASS, and QZSS capable
Enhancement Technology	SBAS: WAAS, EGNOS, MSAS, GAGAN
Receiver Type	66 channels
Tracking Sensitivity	-162 dBm
Acquisition Sensitivity	-145 dBm
Location Accuracy	3.0m
Location Update Rate	up to 10Hz
AGPS / Location assistance capable	
Anti-jamming	

## Cellular

Data Support	SMS, TCP Packet data
Operating Bands (MHz)	GSM/GPRS 850/900/1800/1900

Transmitter Power	
GSM/GPRS	Class 4 (2 W @ 850/900MHz) Class 1 (1 W @ 1800/1900MHz)

## Comprehensive I/O

Digital Inputs	2 Positive 1 Negative
Digital Outputs	1 open collector (150mA)
Analog Input	1 External ADC input 1 Internal VCC monitor
1-Wire	1 Input (Supporting 5 Temperature sensors, iButton Sensor & RFID)
Status LED's	GPS and Cellular

## Certifications

Fully certified FCC, CE, IC, PTCRB, Applicable Carriers

## Electrical

Input Voltage	9-32 VDC (startup, operating) 7-32 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 1000 mAh

## Environmental

Temperature	-30° to +75° C (connected to primary power) -40° to +85° C (storage)
Humidity	95%RH @ 50° C non-condensing
Shock & Vibration	U.S. Military Standards 202G and 810F, SAE J1455
EMC/EMI:	SAE J1113; FCC-Part 15B; Industry Canada
RoHS Compliant	

## Physical

Dimensions	2.125 x 3.5 x 0.93", (54 x 89 x 24mm)
Weight	2.9g (82g)

## Connectors, SIM Access

Connection Type	Captive 10 wire harness
SIM Access	Internal
External GPS	optional SMA (with tamper monitoring, 3V)
External Cellular	optional SMC

## Mounting

Standard tie-wrap or adhesive, Screw mount bracket

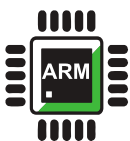
## Key Features

- GPRS/EDGE, TCP and SMS
- Internal or external cellular and GPS antennas
- Super-sensitive GPS (-165dBm)
- Optional Internal back-up 180 mAh or 1000mAh battery
- Ultra-low power sleep mode (<2mA)
- 3-axis accelerometer for motion sense and tilt
- Up to 4 inputs (with 1-wire) and 1 outputs
- Voltage monitoring and low battery notification
- 5,000 buffered messages
- 10 Built-in geo-fences
- CEG™ Exception-Based Rules
- Automatic, Over-The-Air Unit Configuration on Power-up (UCLS™)
- Over-The-Air Firmware Download (UCLS™)
- Web-Based Device Management (UCLS™)
- Optional starter interrupt harness
- Optional OBDII easy install harness
- Optional external and internal GPS and cellular antennas
- Optional external backup battery
- Optional serial cable

## Development Support Options

Customized hardware and software development available on request

### Powerful CPU



### Quad Band GSM



### High Precision GPS



### Bluetooth



### Driver Identification



### Temperature



## About PT. Quantum Mitras Energi

PT. Quantum Mitras Energi is a telematics pioneer leading transformation in a global con-nected economy. We help reinvent businesses and improve lives around the globe with technology solutions that streamline complex IoT deployments and bring intelligence to the edge. Our software applications, scalable cloud services, and intelligent devices collect and assess business-critical data from mobile assets, cargo, companies, cities and people. We call this The New How, powering autonomous IoT interaction, facilitating efficient deci-sion making, optimizing resource utilization, and improving road safety.

PT. Quantum Mitras Energi  
 Website: [www.quantum-mitras.com](http://www.quantum-mitras.com)  
 Email: [info@quantum-mitras.com](mailto:info@quantum-mitras.com)  
 Telp. +62 22 6074495  
 Fax. +62 22 8732 1001  
 Mobile. +62 811759209

