

# SANAV CT-24-D3F(LE) GPS Tracker

High Performance Quadband GPRS/GPS Tracker with 'Store and Forward', Dual-Interval GPS Reports, Built-In Vibration Sensor , GSM Cell-ID and Low Power Mode



## Introduction

The Quadband CT-24-D3F(LE) is the latest version of the SANAV mini GPS tracker, the CT-24, one of the smallest and lightest GPS/GSM/GPRS trackers in the world optimized for law enforcement applications. While the CT-24-D3F(LE) is tiny in size, it is feature rich, so that the CT-24-D3F(LE) can be used in almost any tracking application, such as law enforcement, personal security, workforce management, vehicles and asset tracking and recovery, patient and offender tracking, etc.

The CT-24-D3F(LE) includes a dual-interval GPS report capability which minimizes the wireless data usage when stationary. Additionally, the CT-24-D3F(LE) includes an on-board flash memory data logging capability, which enables GPS position reports to be automatically stored when in poor GSM wireless signal conditions (e.g. in remote areas) and then transmitted when the GSM signal improves sufficiently. The CT-24-D3F(LE) can output both NMEA0183 RMC and GGA (altitude) message formats.

The CT-24-D3F(LE) supports a power save mode and multiple GPS report triggering modes including Auto-Report, SOS/Panic, Polling, Built-In Vibration Sensor and Magnetic Reed Switch (via optional accessory), etc.

## Features

- **GSM Cell-ID and signal strength information when GPS is not available.**
- **Built-in vibration sensor and magnetic reed switch accessory available.**
- **Built-in microphone for one-way audio surveillance (4Q-2010).**
- Quadband GSM frequency bands 850/900/1800/1900MHz.
- Dual-interval GPS reports for stationary and moving modes.
- On-board Flash memory for 'store and forward' data logging.
- SiRF Star III high performance and low power consumption chipset.
- High GPS and GSM sensitivity.

- SOS button for emergency use.
- Send positions via SMS or GPRS, e.g. HTTP, TCP, UDP, Email, etc.
- Programmable GPS auto report interval ranging from less than 10 secs to 65,000 seconds (~18 hours).
- Polling current GPS position in active mode.
- Remote Programming via SMS.
- Low Power Mode between GPS reports (<10mA).
- NMEA0183 RMC and GGA (Altitude) Message Formats.

## Applications

- **Workforce Tracking:** Field Service Technicians, Couriers, etc.
- **Vehicle Tracking:** Delivery Trucks, Shuttle Buses, Rental Cars, etc.
- **Asset Tracking:** Shipping Containers, Construction Equipment, Heavy Plant, etc.
- **Personal Safety:** Alzheimer Patients, Children, Bail Bond Agents, Security Guards, etc.

## CT-24-D3F(TA) Box Contents

- CD with User Manual & Programming Utility and USB Programming Cable
- 110V Mains Charger (USA/CAN) or 220V Mains Charger (Europe)
- Vehicle 12V cigar charger adapter

TECHNICAL SPECIFICATIONS	
<b>GSM &amp; GPS MODULES</b>	
GSM Chipset:	Siemens MC55i
GPS Chipset:	SiRFStar III
<b>GPS RECEIVER</b>	
Message Output Format:	NMEA0183 RMC & GGA (Altitude)
Datum:	WGS-84
Sensitivity:	-159dBm
Reacquisition:	<0.1sec TTFF (Time To First Fix)
Hot:	1sec TTFF typical
Warm:	38sec TTFF typical
Cold:	42sec TTFF typical
Position Accuracy:	15m RMS without SA (Selective Availability)
<b>GSM TRANSCEIVER</b>	
Frequencies:	Quadband GSM 850/900/1800/1900MHz
<b>GENERAL</b>	
Antenna:	Internal GSM antenna and active GPS patch antenna
External Power Supply:	5.0 ~ 8.0V DC with charging current of 500mA
Internal Battery:	3.7V DC, 1800mAh Li-ion battery
Battery Operation:	> 150 hrs in Power Save mode with 1 GPS report per hour
Dimension:	64.66 x 43.19 x 27.70mm (with 1800mA battery)
Weight:	92g (with 1800mAh battery)
Temperature Ranges:	<b>Operating:</b> 0°C ~ +50°C <b>Storage:</b> 0°C ~ +50°C
Relative Humidity:	5% to 95% non-condensing

# ElectronGPS



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