

Praxis OEM



Miniature Vehicle Location
Module



MicroTrax - GSM/GPS Locator

uTRAX

INTRODUCTION

The **uTRAX** unit is a wireless information system designed for the changing needs of Fleet Management and Vehicle Location and is the core of a total system solution for end users as well as system developers.

OVERVIEW

The **uTRAX** device is the latest in high performance GSM communications and GPS location. This unit provides a powerful, versatile and economical platform for mobile communications and positioning applications. It integrates a 16 channel GPS module, quad-band GSM communication engine, digital I/O with 32 bit processing power into a compact sized rugged ABS plastic housing.

DESIGN FEATURES

The **uTRAX** with its high performance GSM engine provides the unit with ready connectivity by using SMS, GPRS or circuit-switched *Data Transmission* with the ease of remote configuration.

With an optional *SD Memory Card* add on, location data can be logged for position reports that include position, date, time, system and input/output port status. These reports can be downloaded either over the air or by simply plugging the SD memory card into a computer.

The **uTRAX** supports full OTA (over the air) reprogramming and allows rapid reconfiguration.

A Dedicated Panic Button signal provides a ready alert in emergencies and Ignition Sense Input provides rapid indication of vehicle in use. GPS Location triggered movement alarm sends a "SOS" signal in event of unauthorized vehicle movement.





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KEY FEATURES

- Operating Modes – Real Time, Data Logger or Both
- Small Size – Length 57mm, Width 61mm, Height 26mm
- 32 Bit 8 Core RISC processor
- 16 Channel GPS Receiver
- Quad Band GSM transceiver
- Automatic Reports based on Time & Distance, Inputs or Polling
- Low-powered operation with standby and sleep modes
- Power surge and reverse polarity protection
- Suitable for 12 and 24 volt operation
- Switch Mode power regulator
- Large memory data storage (SD Card option)
- Digital inputs and high current digital outputs
- Panic Button and Ignition Sense inputs
- RS232 serial port for interfacing
- Concealed GSM SIM card
- Support both SMS and GPRS data transmissions
- “Over The Air” reprogramming
- Optional Lithium Battery pack



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SPECIFICATIONS

Size	Length 57mm, Width 61mm, Height 26mm
Housing	ABS Plastic
Power	8 to 35 Volts DC – Reverse Polarity Protected
Current	< 5mA Sleep Mode, < 80mA Standby
Temperature	0 to 80 Degrees Celsius
Humidity	85% Non-Condensing
Processor	32 Bit 8 Core RISC
Memory	64KB ROM, 32KB RAM
Outputs	2 Open Drain 500mA
Inputs - Dedicated	Panic Button (Active Low), Ignition Sense (8 to 25 Volts)
Inputs – General	2 Active Low
Serial Interface	3 Wire RS232
GSM - Quad Band	850/900/1800/1900MHz
GSM - Power Output	Class 4 (2W) 850/900MHz, Class 1 (1W) 1800/1900MHz
GSM - Sensitivity	-107dBm 850/900Mhz, -106dBm 1800/1900Mhz
GPS - Channels	16
GPS - Sensitivity	-158 dBm (Tracking), -141dBm (Cold Start)
GPS – Acquisition Time	Hot Start 4 Sec, Cold Start 42Sec Typical
GPS – Position Accuracy	Autonomous 2.5 Meters CEP



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OPTIONS

SD Memory Card Add-on

1100mA Lithium Battery Pack

Configuration Software

Protocol SDK

2 IN 1 Combined GPS/GSM Antenna

Custom Firmware upon request

Praxis GPRS Windows™ service

For Further information Contact:

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NOTE:

**Minimum Order Quantities Apply.
Specifications subject to change without prior notice.**