

## ► Universal Tracking Platform

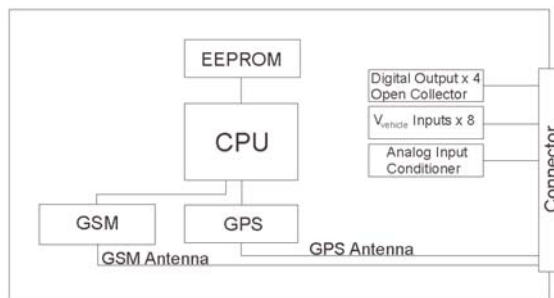
The Universal Tracking Platform (UTP) provides an integrated solution for monitoring and reporting the geographic position, movement parameters and internal health of a vehicle, or any entity capable of movement.

### Original Equipment Manufacture (OEM)

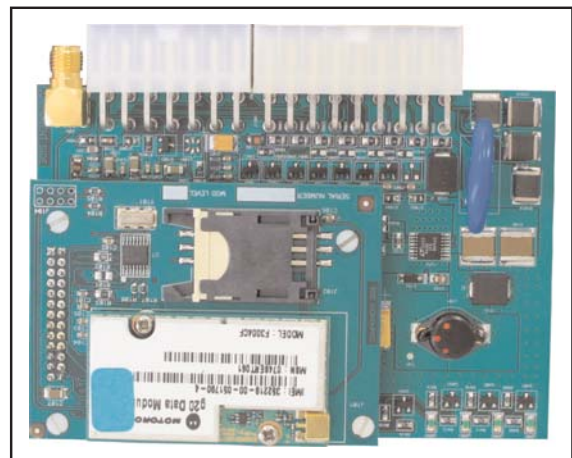
This product is customisable for Original Equipment Manufacturers (OEMs). C²I² Systems will work closely with the OEM or VAR (Value-Added Reseller) if need be and could customise the design based on their specific needs. The VAR will sell the finished product under its own name.

### Architecture

The UTP incorporates a Global Positioning System (GPS) module, a Global System for Mobile Communication (GSM) module, autonomous data logging to onboard non-volatile memory, digital/analogue input and digital output. An onboard rules engine allows easy and powerful user configuration. All UTP functions can be accessed using a powerful serial Application Program Interface (API).



**UTP Architecture**



**Universal Tracking Platform**

### Features

- Full GPS functionality
- GSM V2.5 (GPRS with built-in TCP/IP stack, SMS and CSD communication options)
- 4 Mbit of EEPROM for the logging user or onboard VMM data
- A powerful serial API providing flexible access to all onboard tracking functions
- An onboard rules engine that allows control functions to operate without interaction with the host (for example, the unit may be programmed to report position via GPRS and activate an alarm when the GPS speed exceeds a preprogrammed setpoint)
- Sophisticated reporting functions

This module can be controlled in the following ways :

- External command via serial port
- External command via GSM (GPRS, SMS or CSD)
- External command via Data Key
- Internal, stand-alone operation using rule and function engine



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### Applications

- Vehicle tracking applications
- Position tracking applications
- Remote data logging using GPRS/SMS/CSD
- Remote control using GPRS/SMS/CSD
- Stand-alone data logging and control
- Easy to use GSM (GPRS/SMS/CSD) communication module

Specifications	
<b>Serial Interface</b>	RS232-compatible asynchronous transfer with modem control signals
<b>GPS Receiver</b>	L1 Frequency, C/A Code, 12 Channel
<b>GPS Data Format</b>	Serial API
<b>GPS Update Rate</b>	1 Hz max
<b>GSM Module</b>	GPRS, SMS and CSD
<b>GSM Data Format</b>	Serial API
<b>EEPROM</b>	4 Mbit for data logging or general storage
<b>EEPROM Data Format</b>	Serial API
<b>Analog Inputs</b>	2
<b>Digital Inputs</b>	8
<b>Digital Outputs</b>	4
<b>Analog/Digital I/O Format</b>	Serial API
<b>Operating Limits (GPS)</b>	Altitude < 18 000 m, Velocity < 515 m/s, if GPS option is fitted. Either limit may be exceeded, but not both - COCOM (Coordinating Committee on Export Controls) restrictions apply.
<b>Dimensions</b>	100 mm x 80,00 mm x 30 mm
<b>Power Requirements</b>	6,6 V to 24 V; 24 W
<b>Supporting Software</b>	Sample serial API user application software (C/C++ source code)

Environmental Specifications	
<b>Temperature</b> - Operating - Storage	-20 C to +70 C -40 C to +85 C
<b>Humidity</b>	0% - 90%
<b>Vibration</b> - Sine - Random	2 g (peak) 10 Hz to 100 Hz 0,04 g²/Hz at 15 Hz to 2 kHz