



Software Enhancements for µ-blox GPS receivers introduced at Electronica show in Munich

Thalwil, Switzerland/Munich in November 2000 - µ-blox, a Swiss manufacturer of miniaturized subsystems, completes its portfolio of GPS receivers with new Software Enhancements that offer additional functionality with no additional external hardware required. In addition to the already popular GPS receiver with integrated datalogger µ-blox announces a GPS receiver with an AT Command interface and integrated GSM modem controller.

A typical application for Fleetmanagement, AVL or Tracking requires position information and communication with a central office. The traditional setup requires a GPS receiver, a GSM modem and an external controller. This controller reads positions from the GPS receiver and controls the modem. Incorporating the control of the GSM modem into a GPS receiver spares the extra processor, which simplifies the system design and saves cost. With the AT Command Option for GPS receivers µ-blox offers an integrated control system for GSM modems. This control system is designed for autonomous operation. External requirements are only a power supply and antenna for GPS and GSM.

The AT Command Option is a Software enhancement to a standard µ-blox GPS receiver. The AT Command Option is available for all µ-blox GPS receivers (GPS-MS1E and GPS-PS1E).

A GSM modem is directly connected to the serial port of the receiver, which controls the GSM modem. So minimal external wiring is necessary to get a fully functional system to send position information via GSM (SMS, data connection).

The GSM control software is event driven. For each event an action and the data transmitted can be defined. Events (triggers) may be the output of the GPS engine (position, time) or an external signal. Various configurable trigger are available such as Timer, Distance, Area, Digital IO and external events. If the conditions for a trigger are met, the assigned action will be performed. This assignment is set during the configuration of the GSM control software. The possibility to configure an action, enables

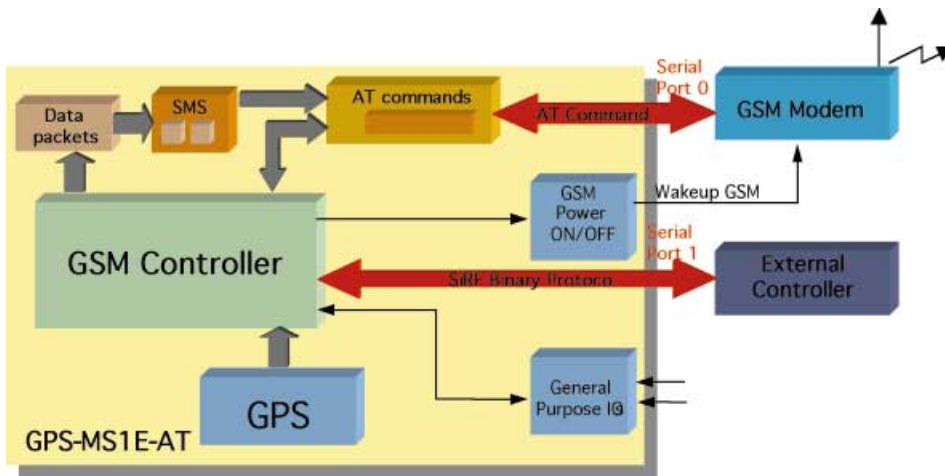
the customer to suit the GPS receiver with the integrated AT Command Option into his own application easily.



All Software Enhancements for the μ -blox GPS-MS1E and GPS-PS1E are fully compatible to standard μ -blox GPS receivers and to be configured through the serial interface. They are designed for autonomous operation whereas only a minimal external circuitry and no external controller are required. In addition it supports a sub-set of the AT command set for the control of GSM modems. SMS messages, data connections and voice calls are autonomously triggered by GPS or external events.

μ -blox AG has been founded in 1997 as a spin-off company of the Swiss Federal Institute of Technology in Zurich. The company is known as supplier of highly integrated GPS receivers with low power consumption and high performance.

Further information under www.u-blox.ch.



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