

The Mini-MT (GSM2228) is a portable hand-held tracking device utilizing GPS for location and GSM/GPRS/SMS for communication and configuration. See Figure 1 for a block diagram of the Mini-MT.

The MLG0208 is a quad-band GSM/GPRS module with an integrated GPS receiver. The GSM and GPS antennas are integrated on the PCB. The SIM card is accessed in the battery compartment. The module also controls the CALL LED for display of call and registration status. Inputs from a user are through four (4) switches for volume up, down, user defined 1, and user defined 2.

Audio interfaces include an internal microphone and speaker as well as a 2.5mm Audio jack for an external headset.

A mini-USB connector and USB interface for data communications, product configuration, and charging the internal battery.

The internal battery is the primary power source for the Mini-MT. The battery charger requires 5VDC +/- 0.25VDC at 500mA maximum.

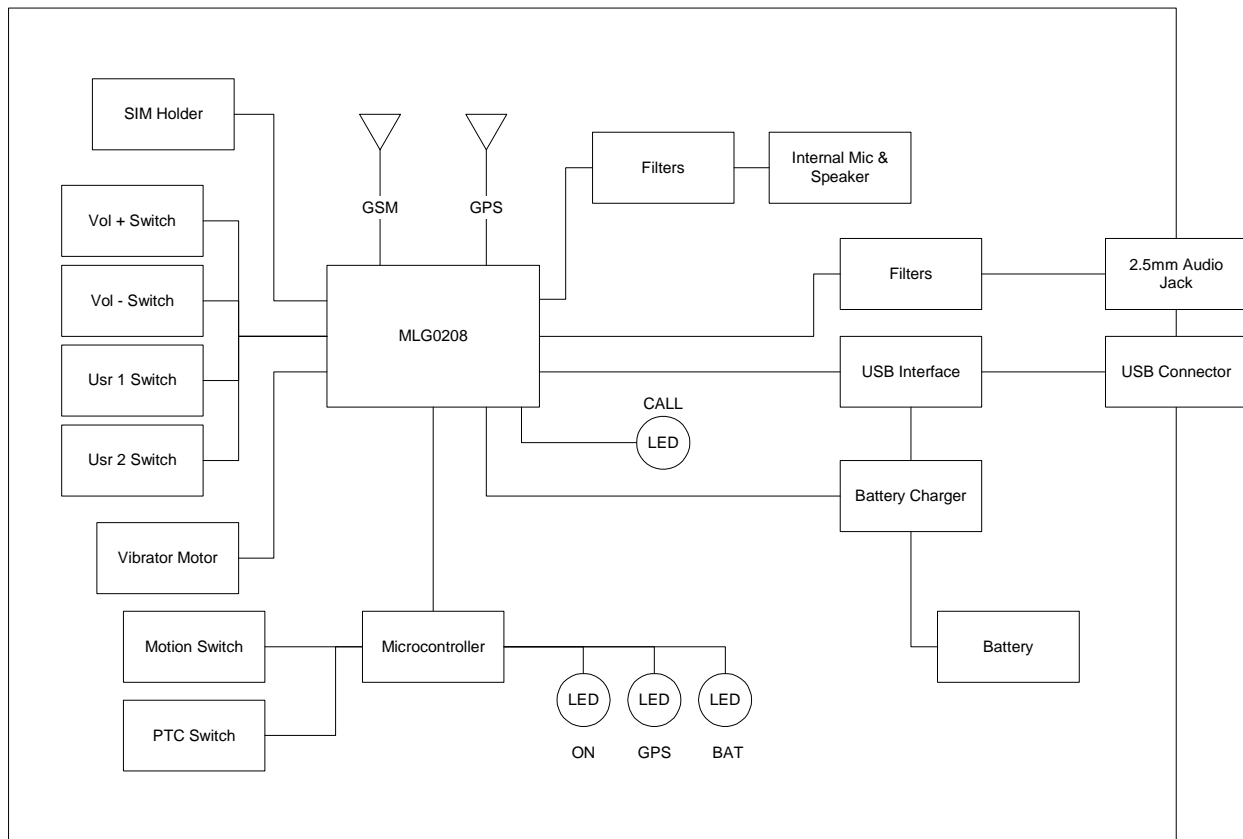


Figure 1 – Mini-MT Block Diagram

A vibrator motor provides “silent” alerts to the user.

The microcontroller performs power control to extend the battery life. It also monitors the motion switch to detect when motion occurs and when it stops. The microcontroller also monitors the PTC switch for originating a predetermined phone number or terminating an existing call. The ON, GPS, and BAT LED’s are managed by the microcontroller through serial communications to the MLG0208 module.