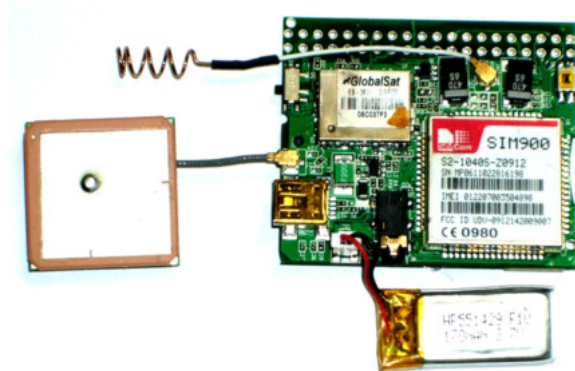


Mini 3Gs Tracker
(3Gs in 1: GPS + GSM + G-Sensor)
(Model: T3G-M2)



(Dimension: 50 x 43.4 mm)

Features:

1. 3-D Motion detect (+/-)2g/4g/8g
2. SOS panic button
3. Geo-fencing functions
4. Up to 4 preset numbers
5. Voice monitor (Built-in Microphone)
6. Pooling: Call or SMS
7. GPS, GSM, battery status
8. Programmable report time interval
9. Real time Google Map display on Mobile phone (Via Internet link)
10. Support SMS or GPRS
11. Temperature Range Operation: -25 ~ 65 Centigrade Degree, Storage: -40 ~ 85 Centigrade Degree
12. Power supply: 5V (mini USB)
13. Rechargeable & replaceable Li-ion Battery 750mAh, Charged by USB port
14. Built in interfaces: UART & I/O
15. LED indicator: Write (Power and Charging Status), Blue (GSM Status), Red (GPS Signal Status), Green (GPRS Status)
16. Phone call (Optional)

Specifications:

1. GPS Receiver
 - 1.1 Chipset: SiRF III
 - 1.2 Frequency: L1, 1575.42 MHz, C/A Code
 - 1.3 Protocol: NMEA 0183 v3.0
 - 1.4 Sensitivity: Tracking:-159dBm
 - 1.5 Cold Start: 42 seconds, average
 - 1.6 Warm Start: 38 seconds, average

- 1.7 Hot Start: 1 second, average
- 1.8 Reacquisition: 0.1 second, average
- 1.9 Accuracy: Position: 10 meters, 2D RMS
- 1.10 5 meters, 2D RMS, WAAS enabled
- 1.11 Velocity: 0.1 m/s
- 1.12 Time: 1us synchronized to GPS time
- 1.13 Maximum Altitude < 18,000 meters
- 1.14 Maximum Velocity < 515 meter/second
- 1.15 Maximum Acceleration < 4G
- 1.16 Update Rate: 1 Hz
- 1.17 DGPS: WAAS, EGNOS, MSAS
- 1.18 Datum: WGS-84

2. GSM

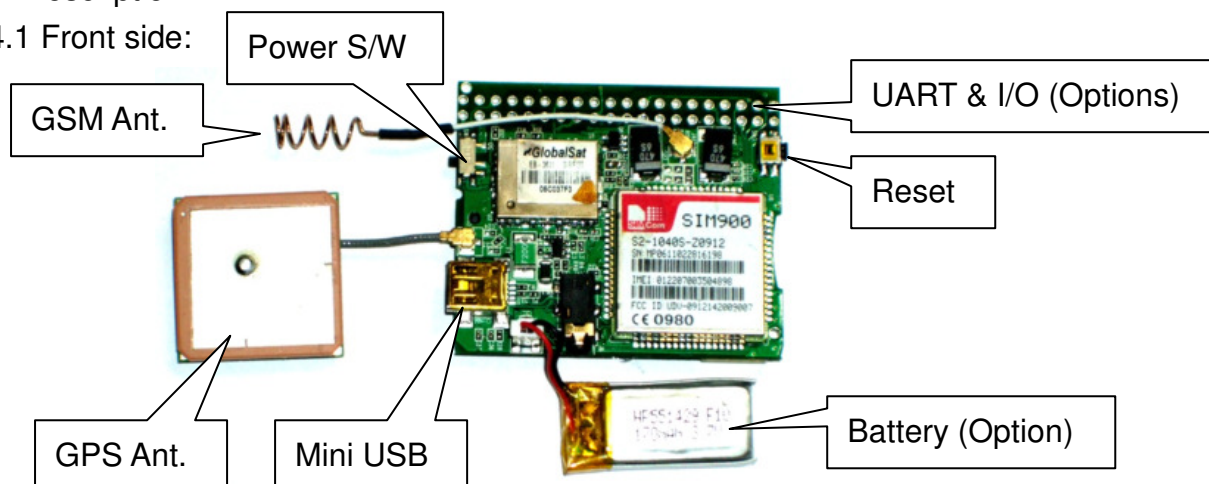
- 2.1 Quad-Band 850/ 900/ 1800/ 1900 MHz
- 2.2 Compliant to GSM phase 2/2+
- 2.2.1 Class 4 (2 W @ 850/ 900 MHz)
- 2.2.2 Class 1 (1 W @ 1800/1900MHz)

3. G-Sensor

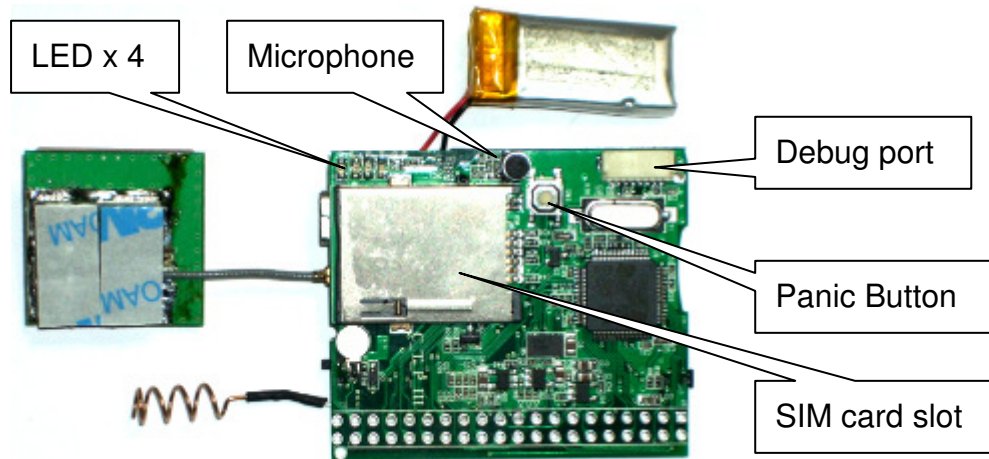
- 3.1 Range: (+/-)2g/4g/8g
- 3.2 Self-Test for Z-Axis
- 3.3 User Assigned Registers for Offset Calibration
- 3.4 Programmable Threshold Interrupt Output
- 3.5 Level Detection for Motion Recognition (Shock, Vibration, Freefall)
- 3.6 Pulse Detection for Single or Double Pulse Recognition
- 3.7 Sensitivity (64 LSB/g @ 2g and @ 8g in 10-Bit Mode)
- 3.8 Selectable Sensitivity (+/-)2g/4g/8g for 8-bit Mode

4. Description

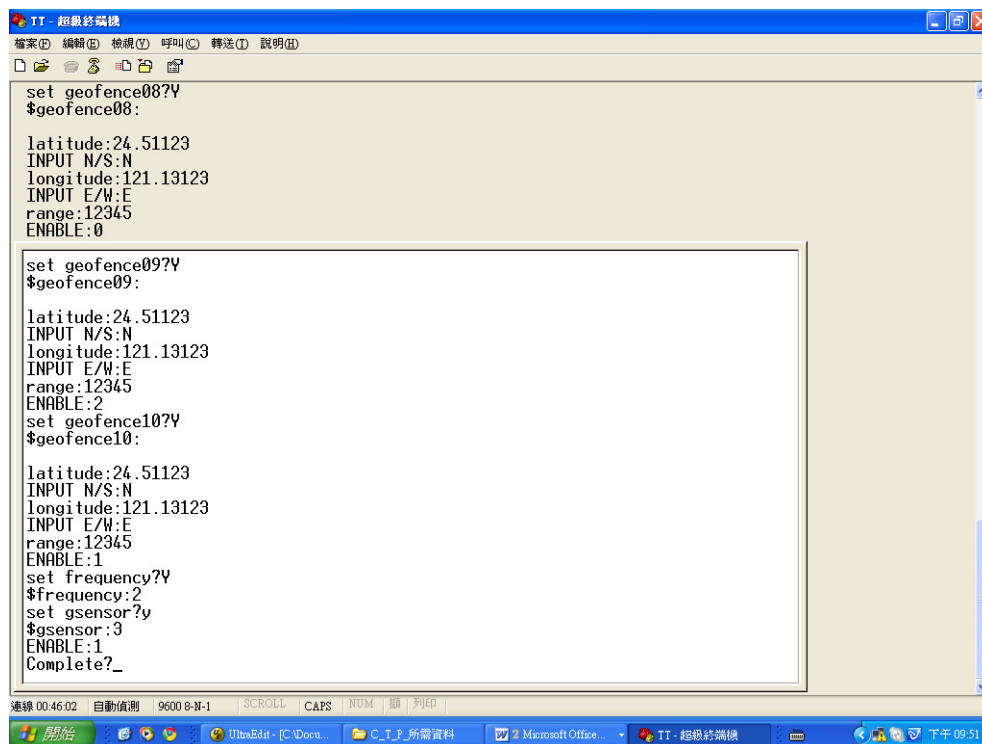
4.1 Front side:



4.2 Back side:



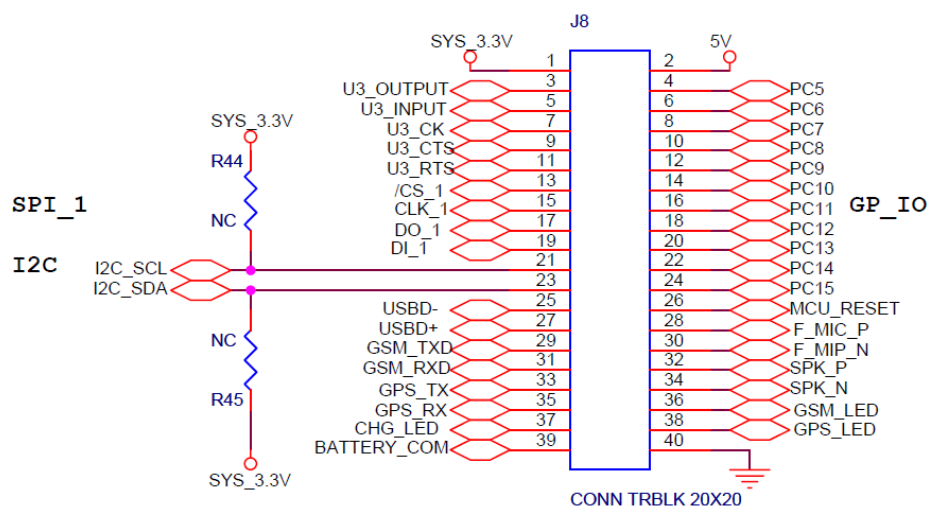
5. Setup via Hyper terminal or COM port tool



6. Pin Definition: for external device integration (Options)



(Dimension: 50 x 43.4 mm)



PIN 1 : Power 3.3V Output	PIN 21: I2C_SCL /GPIO
PIN 2 : Charger 5V Input	PIN 22: GPIO (CMOS)
PIN 3 : UART_TX /GPIO	PIN 23: I2C_SDA/GPIO
PIN 4 : GPIO (CMOS)	PIN 24: GPIO (CMOS)
PIN 5 : UART_RX /GPIO	PIN 25: USB- (USED)
PIN 6 : GPIO (CMOS)	PIN 26: MCU_RESET (Active Low)
PIN 7 : UART_CK /GPIO	PIN 27: USB+ (USED)
PIN 8 : GPIO (CMOS)	PIN 28: GSM_MIC+
PIN 9 : UART_CTS /GPIO	PIN 29: GSM_UART_TX (USED)
PIN 10: GPIO (CMOS)	PIN 30: GSM_MICPIN
PIN 11: UART_RTS/GPIO	PIN 31: GSM_UART_RX (USED)
PIN 12: GPIO (CMOS)	PIN 32: GSM_SPK+
PIN 13: SPI_1_CS (G-sensor)	PIN 33: GPS_UART_TX (USED)
PIN 14: GPIO (CMOS)	PIN 34: GSM_SPKPIN
PIN 15: SPI_1_CLK (G-sensor)	PIN 35: GPS_UART_RX (USED)
PIN 16: GPIO (CMOS)	PIN 36: GSM_LED_Output (USED)
PIN 17: SPI_1_DO (G-sensor)	PIN 37: Charger_Led (USED)
PIN 18: GPIO (CMOS)	PIN 38: GPS_LED_Output (USED)
PIN 19: SPI_1_DI (G-sensor)	PIN 39: Battery_Input
PIN 20: GPIO (CMOS)	PIN 40: GND

Remark:

1. We provide the customized protocol and I/O integration service.
2. All contents are subject to change without notice.



Ubiquitous Connect

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