

3.5. LED Indicators

The following figure shows the location of AL11's LEDs.



| LED | Indication | Description |
|-------------|------------------------------------|--|
| PWR (Green) | Solid On | In full operation mode |
| | 1 blink (0.1 sec.) in every 8 sec. | In sleep mode |
| | 1 sec. On, 1 sec. Off | GPS module off, external power lost, running on backup battery |
| GPS (Red) | 0.7 sec. On, 0.7 sec. Off | Searching for GPS signal |
| | Solid On | Position fixed |
| WWAN (Blue) | Off | WWAN module off |
| | 0.7 sec. On, 0.7 sec. Off | Searching for WWAN signal |
| | 0.2 sec. On, 2 sec. Off | Registered to WWAN network |
| | 2 blinks in every 2 sec. | Connected to WWAN network |
| | Solid on | Connected to assigned server |
| | Continuous blinking | SIM PIN Error |

Note: In the case of SIM PIN Error, the device will check the AT\$SPIN every 10 minutes and try to access the SIM again. The PIN will be validated 3 times and if it fails the 3rd attempt, including the first inserting time, the SIM card will be locked. Once the SIM is locked, you need to contact your GSM carrier for the PUK in order to unlock the SIM card using your cell phone.

4.3. Power I/O Connector

The following table describes the function of each bare wire.

| Power I/O Connector | | | | |
|---------------------|---|--------|-------------|---|
| Pin# | Function | Color | Designation | Note |
| 1** | General Input2 General Output1 (Default) Analog Input | Blue | IN2/O1/A1/ | Positive trigger input Open collector out put (Max.300mA) Analog input (DC0V~40V) |
| 2** | General Input1 1-Wire Protocol Input | Green | IN 1/1W | Negative trigger input 1-Wire Data input |
| 3** | General Input3 General Output2 (Default) | Yellow | IN3/O2 | Negative trigger input Open collector output (Max.300mA) |
| 4 | Main power input | Red | PWR | DC 8V~40V DC input |
| 5 | Power ground | Black | GNT | Ground |
| 6 | ACC Input | White | ACC | Ignition status positive trigger input |

* 1-Wire® Protocol supports up to three 1-Wire™ devices simultaneously, which means you can have one iButton® sensor (DS1990A) and two 1-Wire™ temperature sensor probes (DS18B20).

** You may configure the `AT$IOCG` command to change these specific I/O pins to any of those functions mentioned as above. **Note: Please do not connect a positive voltage to any output pin !.**

***** WIRING SUMMARY FOR CONNECTING WIRING FOR STANDARD TRACKING *****

MAIN POWER (+RED) & (- BLACK) - CONNECT TO DIRECT CONSTANT POWER SUPPLY

WHITE WIRE - CONNECT TO - IGNITION FEED **WIRE (NOT TO ACCESSORIES)**

GREEN WIRE (+) POSITIVE INPUT - ATTACH ONLY IF REQUIRE BY CUSTOMER IF NPT TERMINATE

BLUE WIRE (--) POSITIVE INPUT - ATTACH ONLY IF REQUIRE BY CUSTOMER IF NPT TERMINATE

YELLOW - ISOLATE----"DO NOT CONNECT TO POWER " IT WILL BLOW THE UNIT

LOCATION OF GPS UNIT- INSTALL UNIT INSIDE HIDDEN AREAS OF DASH OR BEHIND CLOVE BOX

WHERE POSSIBLE. PLACE UNIT WITH LED LIGHTS FACING OUT *** AVOID PLACING UNIT UNDER

CLOSE METAL SUFACES ** GPS SIGNAL WILL NOT TRAVEL THOUGH STEEL.

IT WILL HOWEVER TRAVEL THROUGH NON FERROUS MATERILS EG: GLASS. PLASTICS,