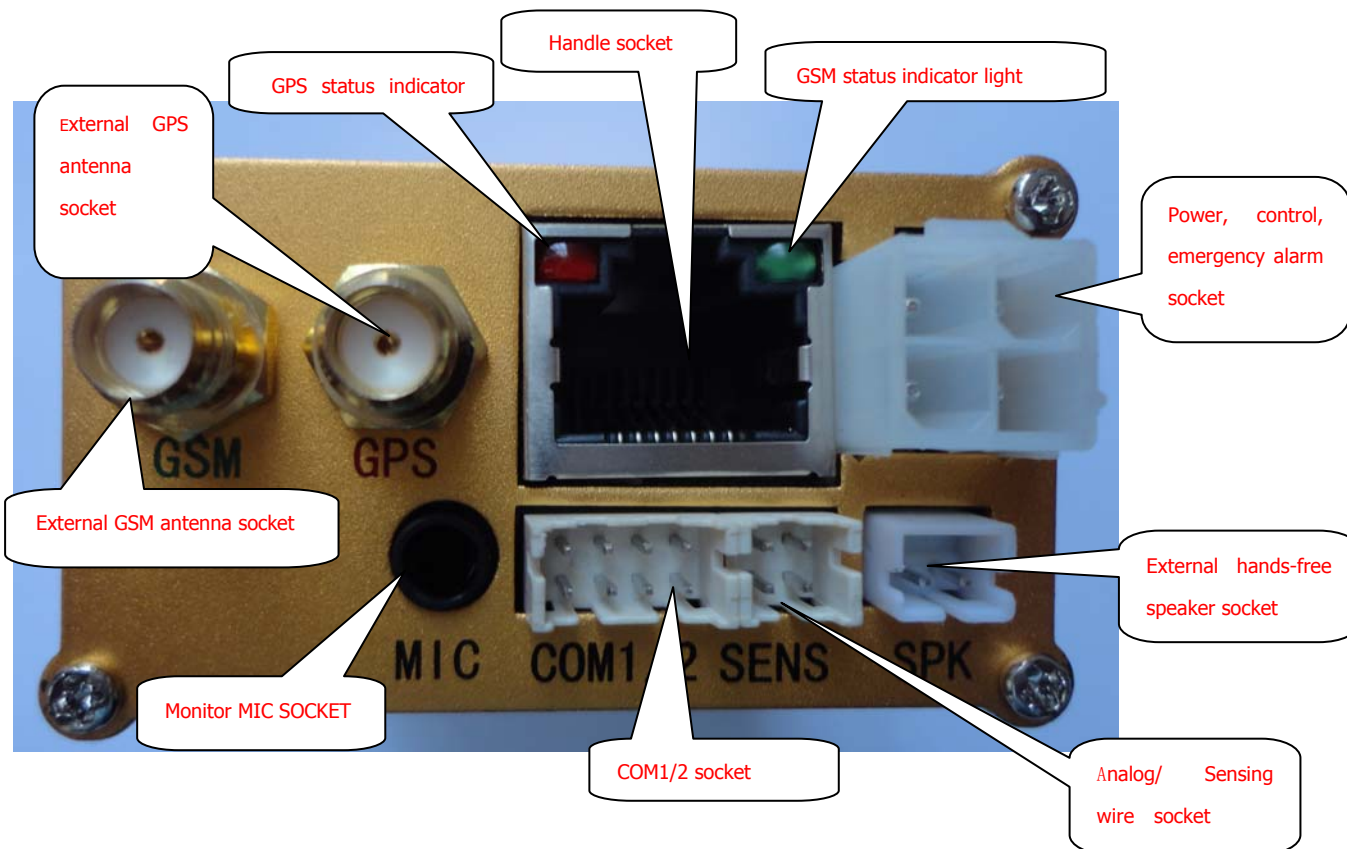


TY-C car machine user manual

TY-C is based on the mobile Internet of things hardware platform MT32A, and the software development system MproIDK to develop and produce, it is a new type positioning products. Prominent feature is small volume, low power consumption, strong function and low cost, Communication protocol are fully compatible with our company other series products And support records 64 - byte format communication protocol.

Can bear 150V high pressure for a long time ,monitor function specially optimized, high sensitivity clear voice, standard analog input is used for oil measurement , Add two road pulse counting input used for traffic , Mileage statistics .Analog and pulse input doing high level input at the same time, Use for the engine、ACC、 positive and negative detection ,etc. This machine can be external hands-free speaker .

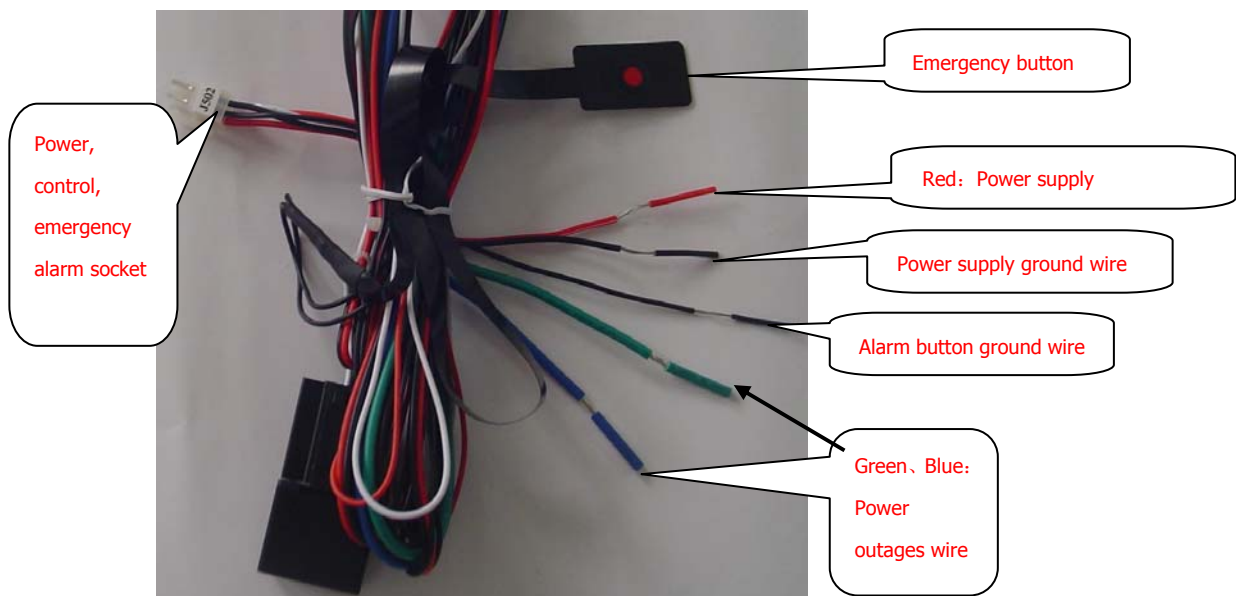
1, Host panel



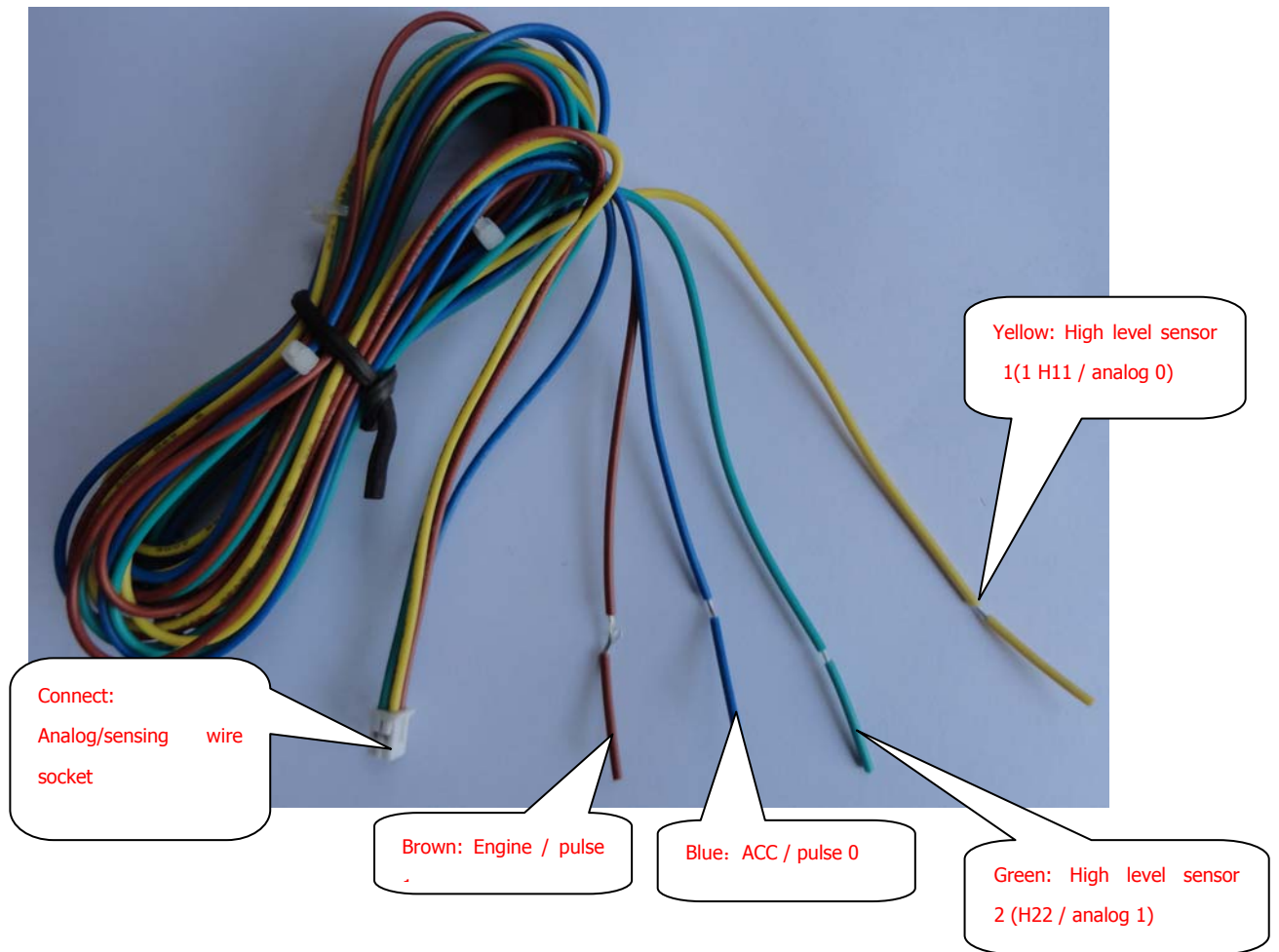
2, Power cord J501 (Low configuration)



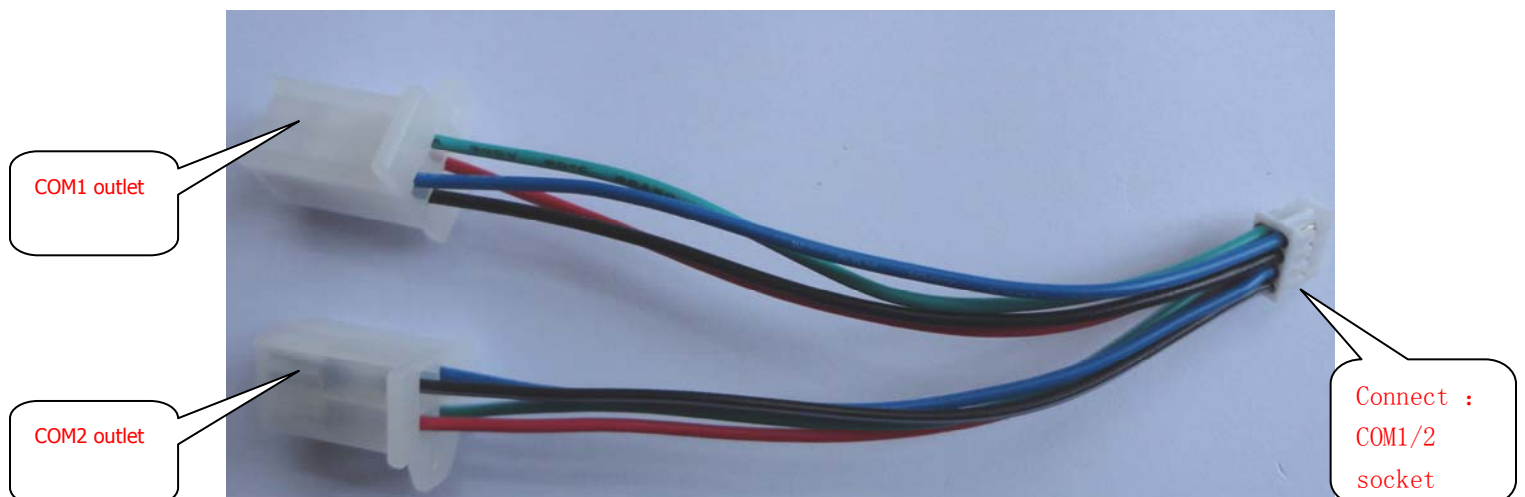
3, Power supply + Cut off oil and electricity + Emergency alarm wire J502 (high configuration)



4, Analog input 、 H11/H22 sensing wire、 ACC/ Engine sensing wire J504

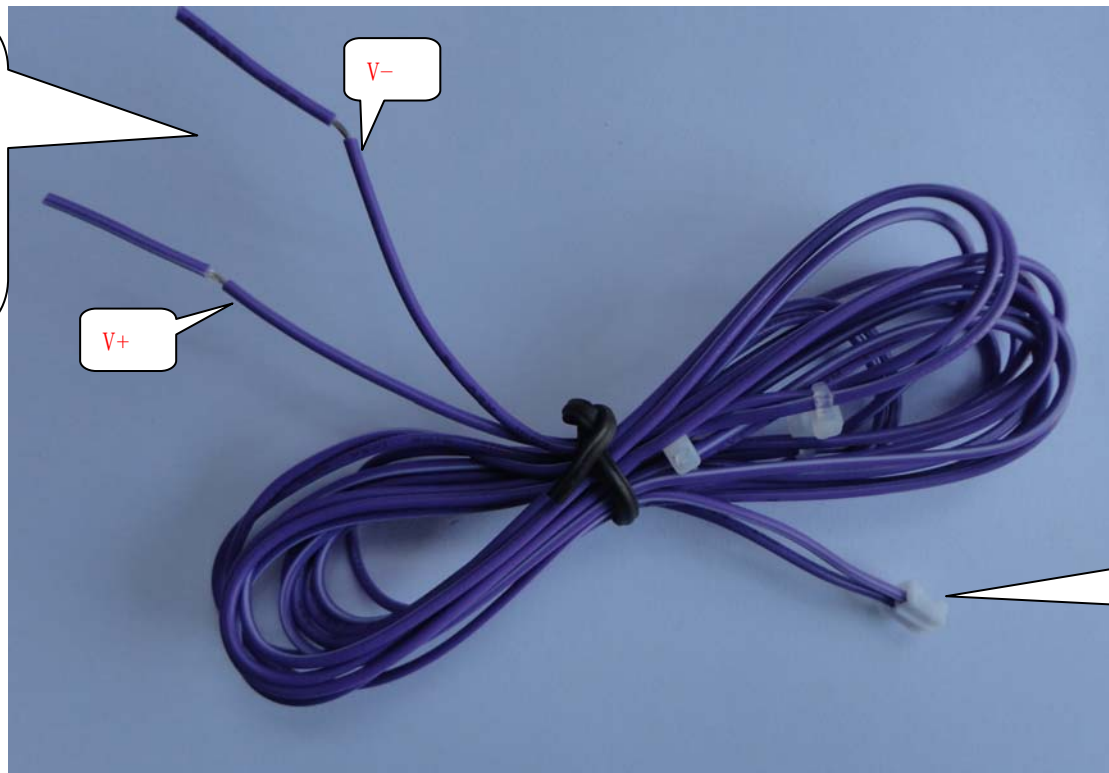


5, Serial port wire (COM1/2) J506



Serial port wire color instruction : COM1 Black color negative 、COM1 Red color positive 5V、
Blue color COM1-RX、green color COM1-TX; COM2 black white color negative 、COM2 Red white
color positive 5V、 Blue white color COM2-RX、 green white colorCOM2-TX。

6, Hand-free speaker wire J505



Connect an external
speaker (0.5 -3 w /
4 - 8 Ω) can be not
distinguish positive
and negative

V-

V+

Connect: External
speaker socket

7, Monitor MIC

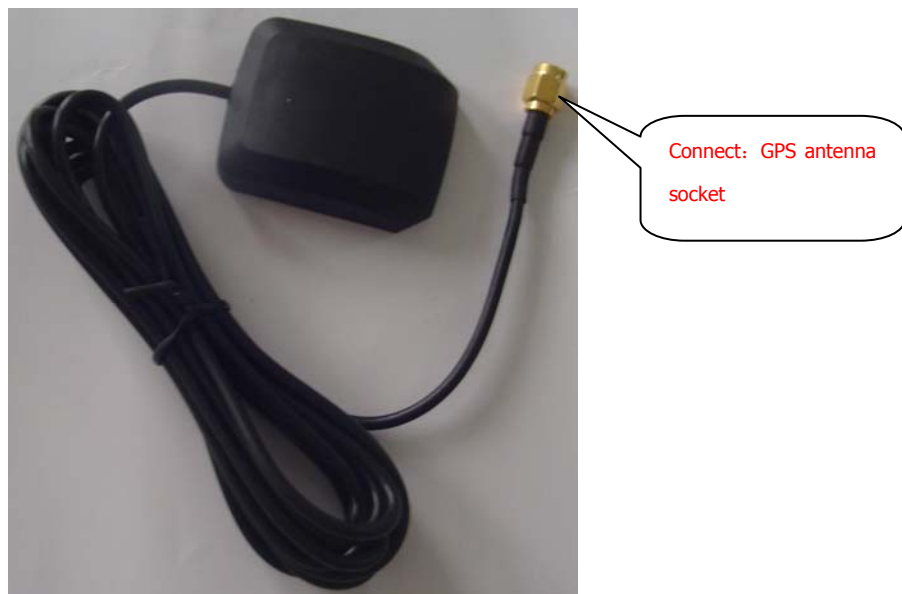


Connect: the
host monitor
socket

8, GSM Antenna



9, GPS Antenna



10, Wiring self-inspection

- 1、 Plug in the maintenance hand shank.
- 2、 Hold down the "self-check" button , Until the "X" symbol to appear on the screen , The following process can be regardless of the sequence , Can be combined at random
- 3、 Press the "1" key , Cut off oil and circuit (engine doesn't work) , Press "1" again to restore oil and circuit.
- 4、 Press the "6" key ,display :A serial port 1 test : ,Short circuit COM1 blue wire and green wire , display : A serial port 1 test : OK Please disconnect the short circuit loop.
- 5、 Press"7"key, display: A serial 2 test: , Short circuit COM2blue white wire and green white wire, display: A serial 2 test: OK Please disconnect the short circuit loop.

- 6、 Press "8"key, hands-free speaker play music ; press "8"key again , music off
- 7、 Press the "emergency button", display: Button is open; Loosen the "emergency button", display: button off
- 8、 High level sensor 1 (Input DC 0V-15V) , Press the handle "0" key ,display: analog input ,The upper screen XXXX numerical change according to the supply voltage (The numerical is 16 hexadecimal characters)
- 9、 High level sensor 2 (Input DC 0V-15V) , Press the handle"0"key,display: analog input ,The lower screen XXXX numerical change according to the supply voltage (The numerical is 16 hexadecimal characters)
- 10、 Open "ACC", display: ACC Already open; Shut down "ACC", display: ACC shut down.
- 11、 Open the "engine", display: engine already open; shut down"engine", display: engine shut down
- 12、 Plug in "GPS antenna", Display: antenna shut; Unplug the GPS antenna, display: antenna open
- 13、 Short circuit "GPS antenna", display: Antenna short circuit is open; Do not short circuit the "GPS antenna", display: Antenna short circuit. shut down
- 14、 Disconnect the "power", Display: battery removal has been opened (This feature need backup battery has been charged can be test) ; Turn on the "power", display: battery removal off
- 15、 Supply voltage from normal to low ,under 10V or over 34V, display: backup battery open; Supply voltage from low or overpressure to normal, display: backup battery off
- 16、 After the above test, Press the "hang up" to exit the self-check state, the host power automatic restart

11, System setting and verify

- 1、 Plug in the maintenance hand shank.
- 2、 Press "set" button, Until the display screen reminder: Please enter the mobile message center number.
- 3、 Input the short message service center number, If not correct press "CLR" key to clear, Long press "CLR" key to clear all Numbers, for example: 8613800755500, after click "OK" to confirm.
- 4、 Input service center message number, for example: 075588888888, If not correct , can press CLR button to clear and then enter again, Long press "CLR" key to clear all Numbers, In front of the number can't be add 86, after click "OK" to confirm.
- 5、 Input the hotline number, for example: 075588888888, If not correct, can press CLR button to clear and then enter again, Long press "CLR" key to clear all Numbers, In front of the number can't be add 86, after click "OK" to confirm.
- 6、 Display screen shows the serial number of the host and the software version number, Press "OK" button, appear "set success!" , Says it has complete set.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To assure continued compliance, any changes or modifications not expressly approved by the party.

Responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

FCC Radiation Exposure Statement:

The equipment complies with FCC Radiation exposure limits set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.