

## GPS Tracker Helios TT

Helios TT is a versatile track & trace system for any vehicle. It is a waterproof, low voltage all-in-one unit with advanced features. Helios TT is compact in size and can be easily hidden in motorcycles and other smaller vehicles. In addition to our various safety and security alerts, it also features a tow alert.

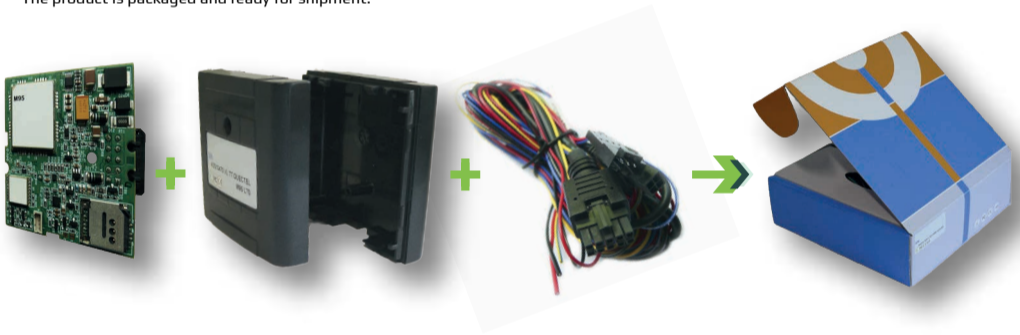


## Plan of implementation

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| <p><b>01</b> <b>Engineering process:</b><br/>optimization pcb design, DFM and DFA checking, design boxes and cables.</p> <p><b>03</b> <b>SetUP process:</b><br/>programming SMT Machines, Stensils Production, tooling production.</p> <p><b>05</b> <b>Technical Control:</b><br/>functional test.</p> <p><b>07</b> <b>Boxes and cables:</b><br/>press form, boxes design and production. Design, Preparing technical Drawings, development of technological process, production.</p> | <p><b>02</b> <b>Raw materials:</b><br/>pcb production, BOM Purchasing, clearance of temporary import process, getting tolling materials.</p> <p><b>04</b> <b>PCBA:</b><br/>SMT process, visual control, AOI 3d inspection.</p> <p><b>06</b> <b>Reliability:</b><br/>washing off, coating.</p> <p><b>08</b> <b>Finish:</b><br/>antistatic Packing and Export to different Counties.</p> |
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## Results

As a result of the full cycle of works, the customer receives a product ready for installation and operation. The product is packaged and ready for shipment.



## Stack of technologies

1. PCB marking for traceability purpose
2. SMT assembly
  - ◆ Solder paste application
  - ◆ Solder paste application control
  - ◆ Components placing
  - ◆ Components placing control (TouchUP-1)
  - ◆ Reflow soldering
  - ◆ Output Control (3D AOI)
3. PCB depaneling
4. THT assembly
  - ◆ Components preparation
  - ◆ Components soldering
5. Full (final) output control of the module
6. Programming and functional test
  - ◆ Preparation for programming and functional test
  - ◆ Programming
  - ◆ Functional test
7. Case assembly of the product
  - ◆ Installing the module in the case
  - ◆ Sticker labeling of the product
  - ◆ Battery holder preparation
  - ◆ Attaching the battery to the holder
  - ◆ Installing the battery in the case
  - ◆ Installing the second part of the case
  - ◆ Case screw fixing
8. Product packaging
  - ◆ Putting in an Individual package
  - ◆ Individual box (cell) packing
  - ◆ Group box packing

## About the company

LLC IKT ELECTRONICS is an electronics manufacturing services company providing its customers SMT & THT assembly, functional testing, conformal coating selective application, assembled PCBs automated cleaning, setting up and adjustment of electronic units, case assembly etc. The manufacturing site is equipped with the machinery from the world leading brands.

The relevant infrastructure elements provide an antistatic work environment, required microclimate and industrial cleanliness. Our personnel have an expertise in fulfilling the projects in navigation and tracking, industrial electronics, telecommunication, solar power and other fields.