

## Navigation devices

Roadmap 2012 H2



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- New OS arriving into the lineup. Android 4.0
  - Multiple functionalities and ever large LCD screens (from 3.5" to 7")
  - Access to Android markets for plethora of apps
  - Fast CPU's, large storage, flexible I/O ports
- Increased portfolio of functions:
  - Glonass
  - Comms: WiFi / Bluetooth (DUN) / GPRS / 3G / Internal & external TMC
  - Image: Lightsensor / IPS LCD's
  - Video: AV-In / Camera / DVB-T (MPEG-2) / ISDB-T
  - Audio: FM-Transmitter
- Speciality markets
  - Sports market – waterproof IPX5 / IPX7
- Larger portfolio of Navigation software
  - Greater choice; New support for OpenStreet maps (worldwide coverage)



# Innovative Software

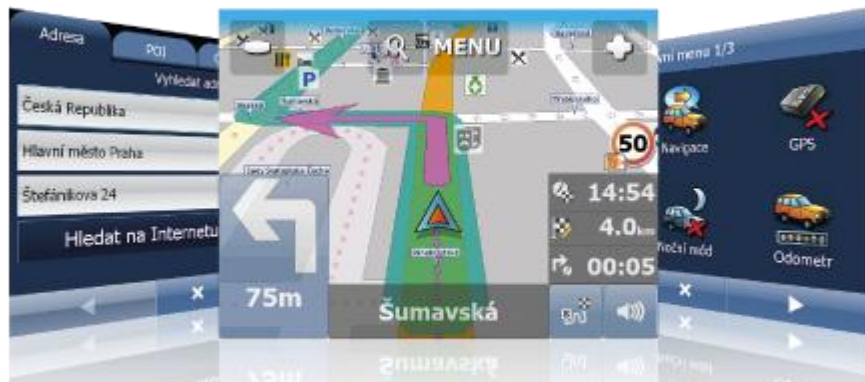


## Professional grade

- Development originated from the professional truck market

## What's New?

- Wide maps selection (OpenStreet maps; TeleAtlas ; etc)
- Runs on Windows, Windows CE, Windows Mobile, and Android platforms



Support for OpenStreet maps  
Support for TeleAtlas maps

# PND overview

|                             | SIRF ATLAS V              | MSTAR 2521/2521A                       | ALLWINNER F20                         | ALLWINNER A13                         | ROCKCHIP 2906                |
|-----------------------------|---------------------------|--|---------------------------------------|---------------------------------------|------------------------------|
| <b>Operating System</b>     | Window CE6.0              | Window CE6.0/ Android 4.0              | Window CE6.0                          | Android 4.0                           | Android 4.0                  |
| <b>CPU Frequency</b>        | Single Core/ 664MHz ARM11 | Single Core/ 500MHz ARM9               | Single Core/480MHz ARM9               | Single Core/1GHz Cortex A8            | Single Core/1GHz Cortex A8   |
| <b>GPS RF Module</b>        | GRF3i+/ Sige 4150         | MSR2112(GPS )/<br>MSR2320(GPS+GLONASS) | HV5820(GPS)                           | HV5820(GPS)                           | GNS7560(GPS)                 |
| <b>GPS Channels</b>         | 64 Channels               | 64 Channels                            | 32 Channels                           | 32 Channels                           | 42 Channels                  |
| <b>SDRAM Support</b>        | DDR2(upto 128M)           | DDR2/DDR3(upto 128M)                   | DDR2(upto 256M)                       | DDR3(upto 512M)                       | DDR3(upto 1G)                |
| <b>NAND Flash Support</b>   | SLC/ MLC/ INAND/ MovINAND | SLC/ MLC/ INAND/<br>MovINAND           | SLC/ MLC/ INAND/<br>MovINAND          | SLC/ MLC/ INAND/<br>MovINAND          | SLC/ MLC/ INAND/<br>MovINAND |
| <b>SD Card Support</b>      | TF Card, up to 32G        | TF Card, up to 32G                     | TF Card, up to 32G                    | TF Card, up to 32G                    | TF Card, up to 32G           |
| <b>Integration</b>          | VLED/ DC-DC Buck/ CCIR656 | N/A                                    | N/A                                   | N/A                                   | N/A                          |
| <b>Touch panel type</b>     | Resistive                 | Resistive or Capacitive                | Resistive                             | Resistive/Capacitive                  | Resistive/Capacitive         |
| <b>TMC Function</b>         | Optional                  | Optional                               | N/A                                   | Optional                              | Optional                     |
| <b>FM-Transmitter</b>       | Optional                  | Optional                               | Optional                              | Optional                              | Optional                     |
| <b>WiFi Function</b>        | Optional                  | Optional                               | N/A                                   | Optional                              | Optional                     |
| <b>BT+DUN Function</b>      | Optional                  | Optional                               | N/A                                   | N/A                                   | N/A                          |
| <b>Light Sensor F.</b>      | Optional                  | Optional                               | Optional                              | Optional                              | Optional                     |
| <b>G-Sensor Function</b>    | Optional                  | Optional                               | N/A                                   | Optional                              | Optional                     |
| <b>DVB-T/ ISDB-T</b>        | Optional                  | Optional                               | N/A                                   | N/A                                   | N/A                          |
| <b>GPRS</b>                 | Optional                  | Optional                               | N/A                                   | N/A                                   | Optional                     |
| <b>3G Function</b>          | Optional                  | Optional                               | N/A                                   | N/A                                   | Optional                     |
| <b>AV-IN Function</b>       | Optional                  | Optional                               | N/A                                   | N/A                                   | N/A                          |
| <b>OTG</b>                  | N/A                       | Optional                               | Optional                              | Optional                              | Optional                     |
| <b>Camera /DVR Function</b> | N/A                       | N/A                                    | 2M/ 0.3M with the night view function | 2M/ 0.3M with the night view function | Optional                     |

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# WaterProof IPX5



- Protected against water jets
- Pocket size
- Ideal for extreme sports



## Ultra compact and waterproof. Extreme sports

| Model             | IPX5  |
|-------------------|---|
| Processor         | Centrality Atlas IV, 500MHz<br>GPS: high sensitivity receiver, 64 channels  |
| Display           | 3,5" color TFT touch screen (320 x 240)   |
| Memory            | Internal Ram: 64 MB, max. 128MB<br>Internal Rom: 64 MB, max. 8GB, MLC<br>Expansion: Micro SD-Card slot, max 8GB                                   |
| Audio / Video     | Speaker: built in, 1W, 8 Ohm<br>Headphone: n/a  |
| Input             | Stylus pen / Software keyboard  |
| Communication     | Connectivity: USB client for active sync<br>Bluetooth: Optional<br>TMC (external / internal): Optional  |
| Power & Weight    | Battery: Rechargeable Li-pol, 1800mAh<br>Size: 116(w) x 80(d) x 34(h)mm   |
| O.S. & SW         | OS: Microsoft Windows CE 6.0<br>SW & Maps: per customer demand<br>Photo-Viewer (optional) • Doc. Viewer (optional) •<br>MP3/MP4 player (optional) |
| Remarks / Options | Certification: waterproof IPX7 (optional) • Battery exchangeable (optional) • Rotation sensor (optional)  |



# U series

## L502



- Full featured
- Best GPS radio
- Ultra value
- Best seller



### Ultra value. Best seller

| Model             | L502   |
|-------------------|--|
| Processor         | MSTAR 2521A, 500MHz, Arm9, Single Core<br>GPS: high sensitivity receiver, 64 channels                                      |
| Display           | 5,0" color TFT touch screen (800 x 600) LCD 200 LUX • HD Display: optional   |
| Memory            | Internal Ram: 128MB<br>Internal Rom: 4 GB, max. 8GB, MLC<br>Expansion: Micro SD-Card slot, max 8GB                         |
| Audio / Video     | Speaker: built in, 1W, 8 Ohm<br>FM Transmitter: optional • Earphone jack: optional   |
| Input             | Stylus pen / Software keyboard   |
| Communication     | Connectivity: USB client for active sync<br>Bluetooth: Optional • AV-IN: Optional<br>TMC (external / internal): Optional   |
| Power & Weight    | Battery: Rechargeable Li-pol, 600mAh<br>Battery optional: Rechargeable Li-pol, 1050mAh<br>Size: 135(w) x 86(d) x 12.9(h)mm |
| O.S. & SW         | OS: Microsoft Windows CE 6.0 (optional)<br>SW & Maps: per customer demand<br>MP3/MP4 player (optional)                     |
| Remarks / Options | Light sensor (optional) • Glonass (optional)   |

# All series

## V502



Size: 135x86x11.5mm

- Fast 1GHz CPU
- Android 4.0 with market
- Great value



## Android ICS 4.0. The future now.

| Model             | V502  |
|-------------------|---|
| Processor         | AllWinner A13, 1GHz, Arm Cortex A8, Single Core<br>GPS: high sensitivity receiver, 64 channels                                |
| Display           | 5,0" color TFT touch screen (800 x 600) LCD 200 LUX • HD Display: optional • 7" panel optional                                |
| Memory            | Internal Ram: 512MB<br>Internal Rom: 4 GB, max. 8GB, MLC<br>Expansion: Micro SD-Card slot, max 8GB                            |
| Audio / Video     | Speaker: built in, 1W, 8 Ohm<br>FM Transmitter: optional • DVR Cam: optional  |
| Input             | Stylus pen / Software keyboard  |
| Communication     | Connectivity: USB client for active sync<br>Bluetooth: Optional • WiFi b/g/n: Optional<br>TMC (external / internal): Optional |
| Power & Weight    | Battery: Rechargeable Li-pol, 950mAh<br>Battery optional: Rechargeable Li-pol, 1600mAh<br>Size: 135(w) x 85(d) x 12.5(h)mm    |
| O.S. & SW         | OS: Android ICS 4.0 (optional)<br>SW & Maps: per customer demand + And mkt<br>MP3/MP4 player (optional)                       |
| Remarks / Options | Light sensor (optional) • Glonass (optional)  |

# The Next Generation of GPS

## V-series



## ME-series



## I-series



## F-series

