iID® PENsolid UHF

Mobile UHF-RFID read/write device & HID scanner

iID® PENsolid is one of the newest innovations in microsensys RFID mobile pen concept for wireless data capture. This reader is very useful for mobile data acquisition, asset management and maintenance documentation in administration, industry and logistics. It supports a wide field of different UHF transponder chips and additional sensor functionality. It is designed especially as touch enabled add on device for mobile devices, tablet PCs and smart phones and as well available as HF device.

microsensys offers an attractive component platform for RFID solutions – from transponder over smart readers up to practical software tools.

### Basics:
- **UHF RFID read / write unit**
- **RFID keyboard scanner**
- **MPC RFID data collector (on inquiry)**

### Control:
- Power button, scan button

### Output:
- Power LED (orange), connect LED (blue), RF state LEDs (red/green)

### RFID Air Interface:
- **RFID system iID®4000**
- UHF (868/915 MHz) based on ISO 18000-6c

### Chip Solutions:
- Alien Higgs 3/4, Impinj Monza 3/4/5
- NXP U-CODE, TELID®400, TELID®500
- murata MAGICSTRAP™, IMS-PK2525 (type UHFcc)

### Operating Distance:
- 0 ... 50 cm depending on device type, transponder size, type and environmental conditions

### HOST Interface:
- **Bluetooth™**
- Bluetooth™ 2.0, profiles: HID/ SPP, up to 10m communication range

### Communication Modes:
- **Bluetooth™ server or client mode**

### Connectors:
- USB micro (type B), for battery charging and device configuration

### Software Interface:
- iID® driver engine (Windows, Windows Mobile, Android)

### Supported Commands:
- see API documentation of microsensys iID® driver engine

### Operation Modes:
- **DOC or SPC, MPC on inquiry**
- **SLEEP, IDLE, ACTIVE**
- **SLEEP typ. 5μA , IDLE typ. 60 mA, ACTIVE max. 400 mA**

### Battery:
- **Li-Ion rechargeable**
- **Li-Ion accumulator 3.7 V, 420 mAh**, replacement by service up to 10h, depending on operation mode micro USB cable, via micro USB connector up to 3 years, max. 700 recharge cycles

### Device Size:
- **PEN geometry**
- 117 mm x 27mm x 19(23) mm

### Casing Material:
- Plastic

### Operation Temperature:
- -20°C ... +60°C
- -25°C ... +70°C

### Storage Temperature:
- -40°C...

### Emissions:
- examine for EN 302 208

### Protection Class:
- IP 65

### Type:

<table>
<thead>
<tr>
<th>Type</th>
<th>43.72.850.00</th>
<th>43.22.850.00*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Downloaded OP System</td>
<td>iID®4000</td>
<td>iID®4000</td>
</tr>
<tr>
<td>Reader Antenna</td>
<td>P3U (type UHFcc)</td>
<td>CA1604 (preli) (type UHF)</td>
</tr>
<tr>
<td>Communication range</td>
<td>0...5 cm</td>
<td>0...50 cm</td>
</tr>
<tr>
<td>Field Direction</td>
<td>front, touch tip direction</td>
<td>-</td>
</tr>
</tbody>
</table>

* In development or delivery only for special projects