WibuKey ASIC

Description
The WibuKey ASIC represents the heart of the WibuKey protection hardware for connection to the USB port.

It contains Infineon SLM-97CUSIFX1M00 secure memory smart card chip with a maximum of 16 kbyte available memory.

The communication meets USB specifications. All data communication is realized via endpoint 0 control transfers with full speed (12 MBit).

Technical Specifications
- Other license parameter: up to 10 million updates to one license
- Power supply: 3.3V VCC, 10mA @idle / 21mA @max
- Temperature: -40 ºC ...+105 ºC operating, non-condensing
- MTBF (Mean Time Between Failures): > 3 Million hours
- Dimensions: VQFN-32 package, 5 mm x 5 mm x 0.9 mm

WibuKey ASIC WibuBox/U+ Configuration 1504-03-500
WKASIC WibuBox/U+ 1504-03-500 with full WibuKey functionality.
- Interface: USB
- Encryption: WibuKey algorithm 1, 2 or 4 non-volatile standard entries: 10 entries

WibuKey ASIC WibuBox/RU+ Configuration 1504-03-600
WKASIC WibuBox/RU+ 1504-03-500 with full WibuKey functionality.
- Interface: USB
- Encryption: WibuKey algorithm 3 or 5 non-volatile standard entries: 1 entry

PIN Definition and Function

<table>
<thead>
<tr>
<th>PIN Definition and Function</th>
<th>Package VQFN-32</th>
</tr>
</thead>
<tbody>
<tr>
<td>VSS (GND)</td>
<td>17</td>
</tr>
<tr>
<td>DM (USB-.)</td>
<td>20</td>
</tr>
<tr>
<td>DP (USB+)</td>
<td>5</td>
</tr>
<tr>
<td>VCC (Supply Voltage)</td>
<td>8</td>
</tr>
<tr>
<td>Pad (GND)</td>
<td>0</td>
</tr>
</tbody>
</table>
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Technical Drawing

Schematic
Only for reference and evaluation. All other pins need to be left open.

All dimensions in millimeter. Subject to change without notice.

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