Project Documentation | SHIELD Data Sheet

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...

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UMRR

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2 Reference Documents

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<th>No.</th>
<th>Document</th>
<th>SVN-ID</th>
<th>Notes</th>
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<td>[5]</td>
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</table>

Table 1: Reference documents

The change history can be seen in the log messages in the Version Management Tool “Subversion”, which is used by Smartmicro. Path:
svn://svnrepo/Repository_UMRR_Dokumente/trunk/Kundendokumentation/TM/Datenblätter/Komplett/SHIELD Data Sheet.docx
3 User Safety Warning Information

Read the instructions carefully before you start to work.

Installation
Please observe the following advices when mounting the shields:
- Only use provided or approved equipment for installation.
- Only skilled and instructed persons shall install and connect the devices.
- Only use fully functional equipment (ladders, aerial work platform, ...) when working above ground. Staff shall be capable of working at heights.
- Use caution when installing the devices on or around active roadways. Pay attention to moving traffic.
- Mount the shields carefully to prevent them from shifting or dropping.
- The devices must be mounted to a stiff and solid support. Vibration, oscillation or any kind of movement will reduce the sensor performance.
- Make sure that your installation methods are in accordance with local safety policy and procedures and company practices.

Operation
The shields are designed to work under different environment conditions (temperature, rain, dust, ...). Regular maintenance such as cleaning or recalibration is not required.
4 SHIELD-050000

The SHIELD-050000 is a snow and rain cover aimed to protect the sensor radome surface form accumulation of rain droplets, snow or ice. The amount of accumulation by such material is diminished. However, the SHIELD-050000 is not intended to serve as a full enclosure and will therefore not prevent all accumulation of such materials.

The SHIELD-050000 is depicted in Figure 4-1 below.

The list of compatible UMRR sensors is given in section 4.1.

![Figure 4-1: SHIELD-050000](image1)

![Figure 4-2: SHIELD-050000 drawing](image2)
4.1 General Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>132mm x 93mm x 90mm</td>
</tr>
<tr>
<td>Material</td>
<td>PBT GF</td>
</tr>
</tbody>
</table>

Table 1: SHIELD-050000 general data

4.2 Compatible UMRR Sensors

The SHIELD is compatible with the following UMRR sensors:

<table>
<thead>
<tr>
<th>Variant</th>
<th>Supported UMRR</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHIELD-050000</td>
<td>UMRR-11 Type 44</td>
</tr>
<tr>
<td></td>
<td>UMRR-11 Type 45</td>
</tr>
</tbody>
</table>

Table 2: Compatible UMRR sensors for SHIELD-050000
5 SHIELD-070001

The SHIELD-070001 is a snow and rain cover aimed to protect the sensor radome surface from accumulation of rain droplets, snow or ice. The amount of accumulation by such material is diminished. However, the SHIELD-070001 is not intended to serve as a full enclosure and will therefore not prevent all accumulation of such materials.

The SHIELD-070001 is depicted in Figure 5-1 below.
The list of compatible UMRR sensors is given in section 4.1.

![Figure 5-1: SHIELD-070001](image)

![Figure 5-2: SHIELD-070001 drawing](image)
5.1 General Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>241mm x 90mm x 85mm</td>
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<tr>
<td>Material</td>
<td>PBT GF</td>
</tr>
</tbody>
</table>

Table 3: SHIELD- SHIELD-070001 general data

5.2 Compatible UMRR Sensors

The SHIELD is compatible with the following UMRR sensors:

<table>
<thead>
<tr>
<th>Variant</th>
<th>Supported UMRR</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHIELD-070001</td>
<td>UMRR-0C Type 40</td>
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<tr>
<td></td>
<td>UMRR-0C Type 42</td>
</tr>
<tr>
<td></td>
<td>UMRR-12 Type 48</td>
</tr>
</tbody>
</table>

Table 4: Compatible UMRR sensors for SHIELD-070001
6 Mounting Instruction

The following components are needed to get started:

<table>
<thead>
<tr>
<th>Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bracket-05xxxx (for UMRR-11)</td>
</tr>
<tr>
<td>or</td>
</tr>
<tr>
<td>Bracket-07xxxx (for UMRR-0C)</td>
</tr>
<tr>
<td>Image shows a Bracket-050400</td>
</tr>
<tr>
<td>SHIELD</td>
</tr>
<tr>
<td>Image shows SHIELD-050000</td>
</tr>
</tbody>
</table>

6.1.1 Hardware installation

The following pictures shows a mounted sensor in the bracket, but a sensor is not needed to assemble the Shield. It is for illustrative purposes only.

1. Pull the shield apart at the red arrows.
2. Put the shield at the same angle as the right picture on the Bracket.

3. Put the shield slightly downwards but make sure that the arms (1) don’t lock at the shield (2).

4. Lead the shield in front of the two noses (3)…
5. ...and lock it at the Bracket with a “click” noise.

6. In the picture on the right, you can see the assembled Shield.

7. In regions where strong winds can be expected, secure the Shield with a metal strap at the indicated position on both sides.
7 Important Legal Disclaimer Notice

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# 8 Contact

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