PRODUCT DATASHEET

Confidex Silverline Micro™

Global on metal RFID label with small footprint and industry leading printing capabilities

ELECTRICAL SPECIFICATION

<table>
<thead>
<tr>
<th>Device type</th>
<th>Class 1 Generation 2 passive UHF RFID transponder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air interface protocol</td>
<td>EPCGlobal Class1 Gen2 ISO 18000-6C</td>
</tr>
<tr>
<td>Operational frequency</td>
<td>Global 865 – 928 MHz</td>
</tr>
<tr>
<td>IC type</td>
<td>Impinj Monza 4i™</td>
</tr>
<tr>
<td>Memory configuration</td>
<td>EPC 256 bit; User 480 bit; TID 96 bit</td>
</tr>
<tr>
<td>EPC memory content</td>
<td>Same EPC in every label as a default</td>
</tr>
<tr>
<td>Read range (2W ERP)*</td>
<td>On metal up to 1,5 m / 5 ft</td>
</tr>
<tr>
<td>Applicable surface materials*</td>
<td>Optimized for metal or painted metal</td>
</tr>
<tr>
<td>Attachment on curved surface</td>
<td>Label can be attached on a curved surface. Check installation instructions for more details.</td>
</tr>
</tbody>
</table>

* Read ranges are theoretical values that are calculated for non-reflective environment. Different surface materials may have an effect on performance.

MECHANICAL SPECIFICATION

<table>
<thead>
<tr>
<th>Label surface</th>
<th>Printable white PET, Zebra 5095 resin ribbon recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Background adhesive</td>
<td>High performance acrylic adhesive optimized for metal and painted metal surfaces</td>
</tr>
<tr>
<td>Weight</td>
<td>0,3 g</td>
</tr>
<tr>
<td>Delivery format</td>
<td>800 pcs good labels on reel, bad ones marked with “XXX” printing</td>
</tr>
<tr>
<td>Pitch on reel</td>
<td>25,4 mm / 1”</td>
</tr>
<tr>
<td>Reel core inner diameter</td>
<td>76 mm / 3”</td>
</tr>
<tr>
<td>Tag dimensions</td>
<td>45 x 13 x 1,1 mm / 1.77 x 0.51 x 0.04”</td>
</tr>
</tbody>
</table>

RADIATION PATTERNS

PRINTER COMPATIBILITY

The Confidex Silverline family is designed and verified to work with the Custom Zebra ZT410 RFID Silverline printer. Other Zebra printers are not recommended or supported. Contact your Authorized Zebra Reseller for ordering information.

Set-up instructions and printer configurations specifically for Silverline tags and the Custom ZT410 RFID Silverline printer is available on Zebra.com or by contacting Zebra Technical Support.
INSTALLATION INSTRUCTIONS

When attaching the label ensure the following

- Select a smooth surface without uneven areas below tag
- Avoid touching the background adhesive and IC location

When mounting the label with its adhesive, clean and dry the surface for obtaining the maximum bond strength. Typical cleaning solvents are heptane or acetone for oily surfaces or isopropyl alcohol for plastics. Do not use household cleaning solvents that contain oils. Carefully read and follow the manufacturer’s precautions and directions for use when working with solvents.

Ideal application temperature is from +16°C to +38°C (+60°F to +100°F), bond strength can be improved with firm application pressure and moderate heating from +38°C to +54°C (+100°F to +130°F). Application at temperatures below 10°C (50°F) is not recommended.

For optimal read range it is important to test different placement of label. Generally attaching the label more close to the edge of metal asset gives better read range.

Minimum bending diameter of the Confidex Silverline Micro™ is 100mm. For optimal performance please bend the label in the orientation shown below.

ENVIRONMENTAL RESISTANCE

Operating temperature
-35°C to +85°C / -31°F to +185°F

Peak temperature
+110°C / 230°F for 10min

Water resistance
IP68, tested for 5 hours in 1m deep water

Washing resistance
Tolerates industrial washing with standard solvents. Washing process should be tested in final application.

Chemical resistance
No physical or performance changes in:
- 168h Sulfuric acid (10%, pH 2) exposure
- 168h Motor oil exposure
- 168h Salt water (salinity 10%) exposure
- 30min NaOH (10%, pH 13) exposure
Acetone should be avoided

Storage condition
1 year in +20°C / 50% RH

Environmental values are the best recommendations; resistance against different conditions depends on the combination of all influencing factors, exposure duration and chemical concentrations. Thus, product’s final suitability for certain environmental conditions is recommended to be tested.

ORDER INFORMATION

Zebra part number: 10027755
Product name: Confidex Silverline Micro™ M4i

For additional information and technical support, please contact your Authorized Zebra Reseller or Zebra Technical Support.

DISCLAIMER

THE MATERIALS, PRODUCTS AND SERVICES ARE SOLD SUBJECT TO ITS STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, CONFIDEX MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (I) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (II) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN CONFIDEX STANDARD CONDITIONS OF SALE, CONFIDEX AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN.

Each user bears full responsibility for making its own determination as to the suitability of Confidex products, materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished systems incorporating Confidex products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Confidex.