

PRODUCT DATASHEET

Confidex Carrier Tough Slim™



Durable tag solution for reliable plastic container and returnable transit item tracking.

ELECTRICAL SPECIFICATION

Device type

Class 1 Generation 2 passive UHF RFID transponder

Air interface protocol

EPCGlobal Class1 Gen2 ISO 18000-6C

Operational frequency

Global 865-928 MHz

IC type

Impinj Monza 4QT™

Impinj Monza 4E™ (upon special request)

Memory configuration

With Monza 4QT: EPC 128 bit; User 512 bit; TID 96 bit

With Monza 4E: EPC 496 bit; User 128 bit; TID 96 bit

EPC memory content

Unique number encoded as a default

Read range (2W ERP)*

On plastic up to 12 m / 40 ft

Applicable surface materials*

Non-metallic surfaces.

* Read ranges are theoretical values that are calculated for non-reflective environment, in where antennas with optimum directivity are used with maximum allowed operating power according to ETSI EN 302 208 (2W ERP). Different surface materials may have an effect on performance.

MECHANICAL SPECIFICATION

Tag encapsulation

Scratch and bending-resistant engineering plastic

Background adhesive

High performance acrylic adhesive specifically for low surface energy plastics

Weight

1 g

Delivery format

Single

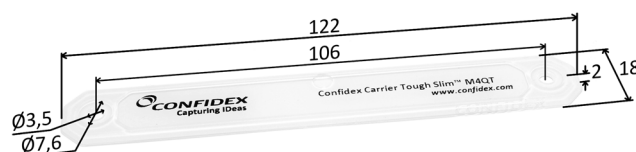
Amount in box

Inner box 100 pcs

Outer box 500 pcs

Tag dimensions

122 x 18 x 2 mm / 4.80 x 0.71 x 0.08 in



ENVIRONMENTAL RESISTANCE

Operating temperature

-35°C to +85°C / -31°F to +185°F

Ambient temperature

-35°C to +85°C / -31°F to +185°F

Water resistance

IP68

Washing resistance

Excellent tolerance against industrial washing processes

Chemical resistance

No physical or performance changes in:

- 168h Salt water (salinity 10%) exposure
- 168h NaOH (10%, pH 13) exposure
- 168h Motor oil exposure
- 168h Sulfuric acid (10%, pH 2) exposure

Storage condition

1 year in +20°C / 50% RH (shelf life for adhesive)

Expected lifetime

Years in normal operating conditions

Values in the table are the best recommendations; resistance against environmental 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. Contact Confidex for more specific information.

PERSONALIZATION OPTIONS

Pre-encoding

- Customer specific encoding of EPC or user memory. Locking permanently or with password.

Customized printing

- Customer specific layout including logo, text, numbers, barcodes etc.

INSTALLATION INSTRUCTIONS

Confidex Carrier Tough Slim™ polarization is along the longest dimension of the tag. This should be taken into account when linear reader antennas are used.



When selecting the location ensure the following

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

When mounting the label with its adhesive, clean and dry the surface for obtaining the maximum bond strength. Typical cleaning solvents are heptane for oily surfaces and isopropyl alcohol for plastics. Use reagent grade solvents since common household materials like rubbing alcohol frequently contain oils to minimize the drying effect on skin and can interfere with the performance of adhesive. Carefully read and follow the manufacturer's precautions and directions for use when working with solvents. Do not re-attach tags as adhesion will suffer.

Ideal application temperature is from +21°C to +38°C (+70°F to +100°F), bond strength can be improved with firm application pressure and moderate heating up to +54°C (+130°F). Application at temperatures below 10°C (50°F) is not recommended.

Confidex Carrier Tough Slim™ can also be attached mechanically with:

- M3 Screws
- 3 mm Pop rivets

In harsh conditions mechanical fixing is always recommended.

ORDER INFORMATION

Product number: 3001440

Product name: Confidex Carrier Tough Slim™ M4QT

Following products are available upon special request:

Product number: 3001489

Product name: Confidex Carrier Tough Slim™ M4E

For other versions, additional information and technical support contact Confidex Ltd.

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