



## RFID Snap-on Module for Mobile Computer MC 959x<sup>EX</sup>-NI series

### Features

- Innovative addition to the MC 959x<sup>EX</sup>-NI
- Power is supplied by the MC 959x<sup>EX</sup>-NI

### Description

The module can be simply plugged onto the cradle contacts of the MC 959x<sup>EX</sup>-NI. The scan trigger is ergonomically mounted on the mobile computer, permitting simple recording of various RFID standards in the frequency ranges LF, HF or UHF with single-handed operation.

No extra power supply is required for the RFID module. An SDK is available for application development using the programming languages C and .Net as Open Source Code, including demo.

### Explosion protection

#### Ex protection type ATEX Zone 2/22

- ⊕ II 3G Ex ic IIC T5 Gc
- ⊕ II 3D Ex ic IIIC T90 °C Dc

#### Certification

EPS 13 ATEX 1588 X

#### Ex protection type IECEx Zone 2/22

- Ex ic IIC T6 Gc
- Ex ic IIIC T90 °C Dc

#### Certification

EPS13.0028X

#### Ex protection type UL Division 2

- Class I Div. 2 Group A, B, C and D
- Class II Div. 2 Group F and G
- Class III T5

#### Certification

UL File E321557 Vol. 1 Sec. 2

### Supported RFID standards

#### LF Reader: Type B7-A2Z0-0020

|              |                 |
|--------------|-----------------|
| HITAG S256   | ISO 117845      |
| HITAG S 2 kb | ISO Animal      |
| HITAG 1      | ISO 11784/5     |
| HITAG 2      | EM 4450/4550    |
| Q5           | EM4xxx (UNIQUE) |
| ATA5567      | HDX-RO          |
| EM4305       | HDX (Multipage) |
| BDE          | FDX-B           |

#### HF Reader: Type B7-A2Z0-0021

|                                     |
|-------------------------------------|
| ISO 14443 (e. g. Mifare Ultralight) |
| ISO 15693                           |

#### UHF EU and US Reader: Type B7-A2Z0-0022, B7-A2Z0-0023

|           |
|-----------|
| EPC Gen 2 |
|-----------|

### Technical data

#### Dimensions (length x width x height)

80 mm x 61 mm x 31 mm  
3.15 inch x 2.4 inch x 1.22 inch

#### Weight

approx. 75 g  
approx. 0.165 oz

#### Ambient temperature

-20 °C to +50 °C (-4 °F to +122 °F)

#### Storage temperature

-40 °C to +70 °C (-40 °F to +158 °F)

#### Air humidity

5 % to 95 % (non-condensing)

#### Protection class

IP 54

#### Antenna

internal

#### LF module

Reading range up to approx. 5 cm (1.9 inch)

#### Frequency range

125/134 KHz

#### HF module

Reading range HF ISO 15693:  
approx. 6 cm (approx. 2.36 inch)

Reading range HF ISO 14443:  
approx. 6 cm (approx. 2.36 inch)

#### Frequency range

13.56 MHz

#### UHF module

Reading range up to approx. 30 cm  
(ca. 11.8 inch)

#### Frequency range

865.6 to 867.5 MHz (Europe)  
902 to 928 MHz (North America)

#### Application development

Software Development Kit (SDK) for programming languages C and .Net for the Windows Mobile operating system

### Selection chart

| RFID Reader      | Code no.  |
|------------------|-----------|
| LF               | <b>20</b> |
| HF               | <b>21</b> |
| UHF Nord-Amerika | <b>22</b> |
| UHF EU           | <b>23</b> |

### Complete order no. B7-A2Z0-00

Please insert correct code.  
Technical data subject to change without notice.