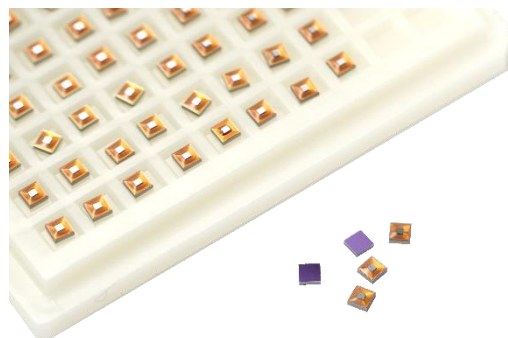


## Qmini TAG 1.8 preliminary

### HF-RFID miniature transponder

- powered by mic3® technology
- passive RFID communication using 13.56 MHz
- ultra small form factor 1.8 x 1.8 mm<sup>2</sup> miniature TAG
- extremely thin
- for mounting on / in non-metal environment
- 2 kbit EEPROM memory
- designed for medical application, replacement part tagging and tool management solutions

This transponder device is an integral part of microsensys' iID® system solution. This TAG operates with best performance together with microsensys standard RFID reader components using highly sensitive demodulators.



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This data sheet is subject to change.  
Picture may differ from original product.

Qmini TAG 1.8 002.docx

#### Contactless Interface:

RFID HF close coupling system **iID®3000**  
Chip Type / Compliance: **ICODE® SLIX-S, ISO15693**  
Carrier Frequency / Communication Rate: **13.56 MHz, up to 53 kbit/s**  
Communication Distance: **0 ... 6 mm, depending on reader system and environmental conditions**

#### Data Memory:

non-volatile memory  
Memory Capacity: **2 kbit**  
Endurance: **write endurance > 10<sup>5</sup> cycles, data retention up to 50 years**

#### Security:

on inquiry  
Memory Management **password (32-bit) protected read / write access**

#### Mechanical / Environmental:

Q 1.8x1.8 mm<sup>2</sup>, TH 0.7 or 0.2 mm  
Dimensions: **approx. 1.8 mm x 1.8 mm (±0.1 mm), thickness 0.7 or 0.2 mm**  
Weight: **< 0.01 g**  
Basic Material: **blank silicon with passivation**  
**antenna and chip available on silicon or polyimide carrier**  
Mounting Instructions: **ask microsensys for support**  
Marking: **none**  
Storage Temperature: **-45 °C ... +125 °C (short time 150 °C)**  
Operating Temperature: **-25 °C ... +85 °C**

#### Operation:

passive wireless read/write memory  
Functions: **SELECT, READ\_UID, READ, WRITE, LOCK**  
Desktop/OEM Reading Devices: **iID® module Q8**  
Mobile Use: **iID® PENsolid, iID® POCKETwork wireless reader with Bluetooth™ interface**  
Software: **iID® DEMOsoft for PC x86/x64, iID® DEMOsoft for Android**  
Device Interface: **iID® driver engine Windows / Android (for iID® contactless RFID interfaces)**

#### Ordering Information:

<b>Type / Product Code</b>	10.470.020.00	10.470.080.00*
<b>Special Feature:</b>	small size, silicon carrier	small size, very thin polyimide carrier
<b>Total Thickness:</b>	< 0.7 mm	< 0.2 mm
<b>User Memory:</b>	1.28 kbit EEPROM	1.28 kbit EEPROM

\*) in development