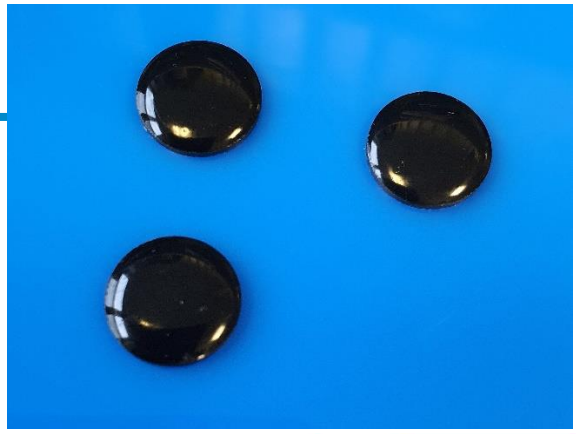
# PRODUCT DATASHEET

*iID® Transponder*



# D14-UTAG

## UHF-RFID transponder

- passive RFID communication ISM UHF band, EPC Class1 Gen2 or ISO 18000-6C
- optional button shape
- EEPROM memory
- designed for item tagging, tool management solutions, aircraft and automotive part tagging

These transponder devices are an integral part of *microsensys* iID® system solutions.
This TAG operates with microsensys standard RFID reader components and high sensitivity demodulators.


***microsensys*** GmbH
In der Hochstedter Ecke 2
D 99098 Erfurt

***TEL*** +49-361-59874 0
***E-MAIL*** info@microsensys.de
***FAX*** +49-361-59874 17
***WEB*** www.microsensys.de






| | | |
|---|---|---|
| **RFID Technology:** | UHF close coupling system iID®4000, | based on ISO 18000-6c, EPC Class1 Gen2 |
| **Chip Types:** | | Monza 4QT |
| **Frequency Range:** | preferably EU ISM Band 860-868MHz | |
| **Polarisation:** | | without polarisation, inductive coupling |
| **Communication Rate:** | | forward link: 40-160kBit/s<br>return link: 40-640kBit/s |
| **Communication Distance:** | 0 … 15 mm | with close coupling UHF readers<br>in any case depending on reader system and environmental conditions |
| **Memory:** | EEPROM | endurance 100000 cycles, data retention 50 year (T<55°C)<br>features depending on RFID chip |
| **Memory Capacity:** | 96 / 128 bit EPC, 48 bit TID, 48 bit serial no. | |
| **User Memory:** | 512 bit | |
| **Special Functionality:** | | switch between private or public mode, see manufacturer data sheet |
| **Operating Temperature:** | -25°C ... +65°C | |
| **Storage Temperature:** | | -45°C … +65°C (for short time +85°C) |
| **Dimensions:** | 15,2 x 2.5 mm | |
| **Packaging Material:** | black epoxy | |
| **Mounting Instructions:** | | see application note |
| **Protection Class:** | IP67 | |
| **Marking:** | no marking | |
| **Appropriate RFID Reader:** | POCKETwork UHFcc | wireless handheld reader |
| | PENsolid UHF | wireless pen reader |
| | INDUSTRY 0906 UHF plus M18 UHFcc | stationary industrial read write unit |
| | others possible | |
| **HOST Command Set:** | see actual API documentation of microsensys iID® driver engine | |

| | | |
|---|---|---|
| **Type :** | **12.934.200.00** | *on inquiry |
| **Chip Type:** | Monza 4QT | |
| **User Memory:** | 512 | bit |
| **Dimension:** | 14 x 2.5 | mm³ |
| **Communication Distance:** | 10 | mm<br>measured with M18 UHF antenna |