

PRODUCT DATASHEET

iID® Transponder

Q43S-DUALTAGspecial

DUAL BAND UHF/HF RFID transponder

- passive RFID communication ISM UHF band + HF band (ISO15693)
- EPC Class1 Gen2 + NFC compatible
- Shared HF and UHF accessible EEPROM memory
- Mounting by glue or adhesive pad on non-metal or metal objects
- useable under harsh environmental conditions
- especially designed for facility management, mobile maintenance and asset management

This transponder device is an integral part of *microsensys* iID® system solutions.



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

microsensys
RFID in motion

This data sheet is subject to change
contact microsensys for latest information

Q43S-DUALTAGsp 010

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|---------------------------------|---|
| RFID Technology: | Near field UHF RFID system iID®4000, ISO 18000-63, EPC Gen2v2 Near field HF RFID system iID®2000, ISO15693 / 18000-3, NFC forum type 5 compatible em echo-V |
| Chip Types: | |
| Frequency Range: | UHF: preferably EU ISM Band 860-868MHz, HF: 13.56MHz |
| Polarisation: | linear |
| Communication Rate: | UHF: forward link: 40-160kBit/s, return link: 40-640kBit/s HF: 26.4 kbps |
| Communication Distance: | see type information dependent on reader system and environmental conditions |
| Memory: | EEPROM, endurance min 100.000 cycles, data retention min 50 years (T<55°C) |
| Memory Capacity: | Up to 480-bit EPC/UII encodings, 64 bit HF UID, 96 bit UHF TID memory |
| User Memory: | 248Byte maximum user memory (HF+UHF) |
| Sensor Functionality: | - |
| Special Functionality: | dual frequency, shared memory |
| Environmental: | |
| Operating Temperature: | -25°C ... +65°C |
| Storage Temperature: | -40°C ... +85°C |
| Dimensions | 43x27 mm, max. TH 5 mm |
| Packaging Material: | EPOXY, PU, PA66 housing |
| Mounting Instructions: | for mounting on non-metal or metal surface, see type information recommended glue: see application note, optional self-adhesive pad |
| Marking: | one colour print, optional custom one colour print |
| Appropriate RFID Reader: | PEN reader with RS232TTL, USB or Bluetooth interface, POCKET reader with USB and Bluetooth interface, especially for mobile data capture UNI13 or Q10 13.56 MHz read write module, for <i>microsensys</i> OEM partners only |
| HOST Command Set: | see API documentation of microsensys iID®driver engine, ISO18000-3 or ISO18000-6 |
| Software: | software for Windows PC or mobile devices available, for application software please contact info@microsensys.de |

| Type: | Standard (non metal) | On metal | |
|------------------------------------|-------------------------------|---------------------------|----|
| Product code: | 16.954.422 | 16.954.452 | |
| Special Features: | Mounting on non metal surface | Mounting on metal surface | |
| Communication Distance HF: | 4 | 2 | Cm |
| Communication Distance UHF: | 4 | 2 | Cm |
| Chip Type: | Em echo-V | Em echo-V | |
| RF Standard: | ISO 115693, ISO 18000-6c | ISO 115693, ISO 18000-6c | |

*in development or on inquiry