### QUIN-TAGspecial

**HF-RFID for industrial applications and harsh environmental conditions**

- passive RFID communication 13.56 MHz
- hard TAG with stainless steel loop
- EPOXY casing, comfort multicolor printing possible
- reusable mounting
- 1 kbit up to 16 kbit memory
- designed for item and object tagging, especially in transport and logistics, chemical industry, maintenance

This transponder device is an integral part of microsensys iID® system solutions. They are working optimally with microsensys standard RFID reader components.

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**RFID Technology:** close coupling RFID system iID®2000/3000, ISO 15693

**Chip Type:**

- SLIX, SLIX-S, iID®X, ST25, iID®G
  - others on request

**Carrier Frequency:** 13.56 MHz

**Communication Rate:**

- down link 26.4 kbps
  - dependent on reader antenna, chip type
  - on metal application

**Communication Distance:** 0 ... 20 mm

**Memory:**

- EEPROM
- FRAM

**Memory Capacity:**

- endurance >10⁶ cycles, data retention >10 (50) years
- endurance >10¹⁶ cycles, data retention >10 years
- 0.9, 1.3, 2, 16 kbit available

**Special Functionality:**

- iID®X type is X-ray suitable, see data sheet of chip manufacturer

**Operating Temperature:**

- -25°C ... +85°C

**Storage Temperature:**

- -45°C ... +125°C

**Dimension:**

- 150°C for short time, high temperature on request

**Casing Material:** approx. 33 x 30 mm, max. TH 3 mm

**Marking:**

- EPOXY multi-layer plastic package, carrier glass fibre reinforced, front side black EP

**Protection Class:**

- IP67

**Mounting Instructions:**

- attach by screw or blind rivet, use directly on metal possible, plane side on metal

**Appropriate RFID Reader:**

- PEN reader
  - with RS232 TTL, USB or Bluetooth interface,
- POCKET reader
  - with USB and Bluetooth interface, especially for mobile data capture
- M30 HEAD
  - with RS232 or USB interface
- INDUSTRY 0906
  - with RS232, USB, PCAN or Ethernet interface
- UNI13 or Q10
  - 13.56 MHz read write module, for microsensys OEM partners only

**HOST Command Set:**

- see current API documentation of microsensys iID® driver engine or data sheets of silicon chip manufacturer

**Software:**

- various software for Windows PC or mobile devices available, for application software please contact info@microsensys.de

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*on inquiry

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