

PRODUCT DATASHEET

iID® Transponder

Q40100-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
- On metal and non-metallic flexible mounting possible
- useable under harsh environmental conditions
- especially designed for mobile maintenance and asset management of metal objects under industrial conditions

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



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microSensys
RFID in motion

This data sheet is subject to change
Contact us for latest information

Q40100-DUALTAGsp 010

RFID Technology:	Far 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:	UHF: 0 ... 4 m, HF: 0 ... 8cm 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:	246Byte HF and 246Byte UHF maximum user memory
Sensor Functionality:	-
Special Functionality:	dual frequency, shared memory
Environmental:	
Operating Temperature:	-40°C ... +65°C
Storage Temperature:	-40°C ... +85°C
Dimensions:	approx. 40 x 100 x 7 mm
Packaging Material:	glass fibre enforced plastic, metal back plate
Mounting Instructions:	adhesive glue or screw mounting, see application note
Marking:	graphic one colour printing optional: customer logo, running number and TAG initializing
Appropriate RFID Reader:	microsensys iID® contactless mobile readers (PENsolid, POCKETwork, iID@wearable) microsensys iID® fixed readers (iID® INDUSTRY0906) third party RFID readers, NFC enabled Smartphones
HOST Command Set:	see actual API documentation of microsensys iID® driver engine

Type :	16.380.459.00
Chip Type:	Em echo-V
User Memory:	HF, UHF (246 Byte)
Integrated Sensor:	-
Communication Distance UHF*:	4 m
Communication Distance HF:	8 cm

*)measured Kenetics Volaré UHF-LR