PRODUCT DATASHEET

iID® Transponder

Label 1836-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
- especially designed for facility management, mobile maintenance and asset management
- custom single-color print optional (including BC/MC/QR)

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

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

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
Chip Types:	em | echo-V
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:	248 Byte maximum user memory (HF+UHF)
Sensor Functionality:	-
Special Functionality:	dual frequency, shared memory
Environmental:	
Operating Temperature:	-25°C ... +85°C
Storage Temperature:	-40°C ... +85°C (preferred 20°C)
IP Code	64
Dimensions	approx. 20 x 38 mm, max. TH 4.5 mm
Packaging Material:	chip in multi ferrite layer packaging, front side clear PU half flexible, minimum bending radius =50mm hermetic encapsulation
Packaging Units:	on 180 x 290 mm page, 28 pieces per page
Mounting Instructions:	self-adhesive, direct on-metal use possible
Marking:	single color print, optional custom single color print with barcode or QR
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 *microsensys* 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:	**On metal**	
Product code:	16.380.686.00	
Special Features:	Operation on metal or non metal surface	
Communication Distance HF:	0-30	mm
Communication Distance UHF:	0-150/500 (non metal /metal)	mm
(handheld module, fixed reader)	0-400/750 (non metal /metal)**	
Chip Type:	Em | echo-V	
RF Standard:	ISO 15693, ISO 18000-6c	

*in development or on inquiry,** measured with Impinj R700 reader

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