

PRODUCT DATASHEET

iID® Transponder

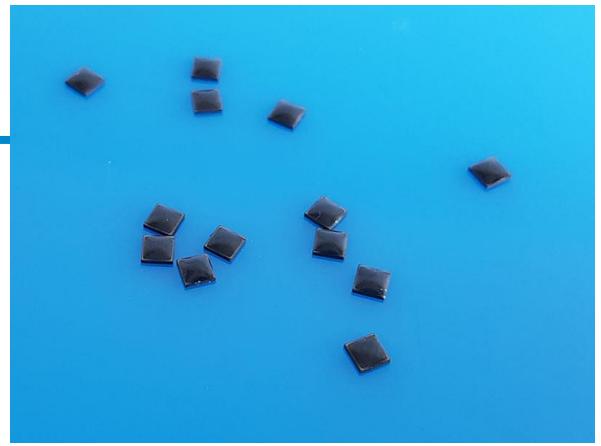
Qmini U-TAG

UHF-RFID miniature transponder

- passive RFID communication ISM UHF band, EPC Class1 Gen2 or ISO 18000-6C
- miniature square TAG, Q1.6 and Q2.0
- very small TAG size
- EEPROM memory
- designed for small item tagging, tool management solutions, aircraft and automotive part tagging

These transponder device is an integral part of *microsensys* iID® system solution.

This TAG operates with *microsensys* standard RFID reader components and high sensitive demodulators.



microsensys GmbH
In der Hochstedter Ecke 2
D 99098 Erfurt

microSensys
RFID in motion

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

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

Qmini UTAG 003

RFID Technology: Chip Types:	UHF closed coupling system iID®4000,	based on ISO 18000-6c, EPC Class1 Gen2 NXP UCODE 7, UCODE 8, UCODE DNA
Frequency Range: Polarisation: Communication Rate:	preferably EU ISM Band 860-868MHz	without polarisation, inductive coupled forward link: 40-160kBit/s return link: 40-640kBit/s
Communication Distance:	0 ... 15 mm in every case depending on reader system and environmental conditions	with closed coupling UHF readers
Memory: Memory Capacity: User Memory: Special Functionality:	EEPROM 128 bit EPC, 96 bit TID - -	endurance 100000 cycles, data retention 50 year (T<55°C) features are depending on used RFID chip UCODE 8 see application note <i>microsensys</i>
Operating Temperature: Storage Temperature:	-25°C ... +85°C	-45°C ... +125°C (for short time +150°C)
Dimensions:	1.6 x 1.6 mm ² , TH 0.5 mm (max) 2.0 x 2.0 mm ² , TH 0.6 mm (max)	Type: 100 Type: 101
Packaging Material:	black epoxy	
Mounting Instructions:	glue	no using on metal plane side on top recommended glue: 2K-EP "plus endfest 300" UHU GmbH Germany
Protection Class:	IP67	
Marking:	no marking	
Appropriate RFID Reader:	POCKETwork UHFcc PENsolid UHF INDUSTRY 0906 UHF plus M18 UHFcc others possible	wireless handheld reader wireless pen reader stationary industrial read write unit
HOST Command Set:	see actual API documentation of <i>microsensys</i> iID® driver engine	

Type :	19.948.100.00	19.948.101.00	19.943.101.00*	*on inquiry
Chip Type:	UCODE 8	UCODE 8	UCODE DNA	
User Memory:	0	0	up to 3k	bit
Dimension:	1.6 x 1.6 x 0.5	2.0 x 2.0 x 0.6	2.0 x 2.0 x 0.6	mm ³
Communication Distance:	8	12	12	mm

measured with M18 UHF antenna