

PRODUCT DATASHEET

iID[®] Transponder

Q72 UTAG

UHF-RFID Tag on metal

- passive RFID communication ISM UHF band, EPC Class1 Gen2
- EEPROM memory
- non-metallic and metallic mounting possible
- laser printing on black epoxy or graphic printing on PE
- mounting: back side self-adhesive or two drills
- especially designed for asset management of metal and non-metal objects under industrial conditions

These 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
WEB www.microsensys.de



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

Q72 UTAG-04

RFID Technology:	far field RFID system iID [®] 4000, based on ISO 18000-6c, EPC Class1 Gen2		
Chip Types:	NXP UCODE G2XM or UCODE G2XL		
Frequency Range:	preferably EU ISM Band 860-868MHz		
Minimum Operating Power:	-8 dBm		
Polarisation:	linear		
Communication Rate:	forward link: 40-160kBit/s return link: 40-640kBit/s		
Communication Distance:	0 ... 4 m on non-metal 0 ... 4 m on metal	dependent on reader system and environmental conditions	
Memory:	EEPROM	endurance 100000 cycles, data retention 50 year (T<55°C) features are depending on used RFID chip	
Memory Capacity:	standard	240 bit EPC memory, 64 bit TID memory	
User Memory:	optional	512 bit user memory	
Special Functionality:		see chip manufacture data sheet	
Operating Temperature:	-40°C ... +85°C		
Storage Temperature:	-45°C ... +85°C		
Dimensions:	approx. 70 x 18 x 3.5 / 4.5 mm ³		
Packaging Material:	version 151 version 152	EPOXY case on fibre-glass reinforced substrate PE foil on fibre-glass reinforced substrate	
Mounting Instructions:	back side self-adhesive or two drills for screw or rivet mounting		
Marking:	version 151 version 152 optional:	laser printing graphic one colour printing graphic printing customer logo, bar code, running number and TAG initializing	
Appropriate RFID Reader:	CASIO IT-800 UHF INDUSTRY 0605 UHF Kenetics Volaré UHF-LR others possible	handheld reader stationary industrial read write unit stationary reader with separate antenna	
HOST Command Set:	see actual API documentation of microsensys iID [®] driver engine		

Type :	16.911. 151.00	16.912.151.00	16.911. 152.00	16.912.152.00	
Chip Type:	UCODE G2XM	UCODE G2XL	UCODE G2XM	UCODE G2XL	
Packaging:	EPOXY	EPOXY	PE	PE	
User Memory:	512	0	512	0	bit
Thickness:	appr. 4.5	appr. 4.5	3.5	3.5	mm
Communication Distance:	4	4	4	4	m
					measured Kenetics Volaré UHF-LR