

PRODUCT DATASHEET

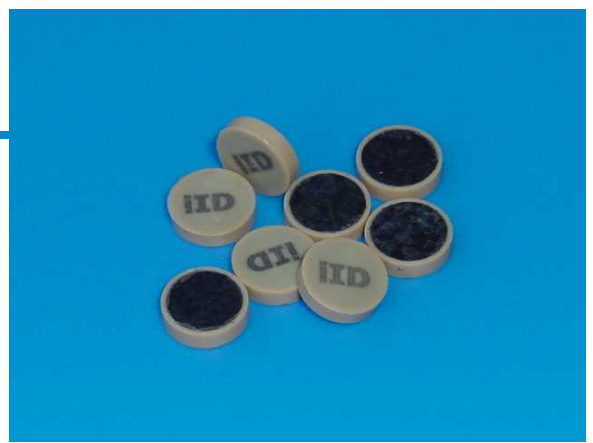
iID® Transponder

MINI-TAGspecial U8.5

close coupling UHF RFID TAG on metal

- passive RFID communication ISM UHF band, EPC Class1 Gen2
- PEEK / EPOXY packaging
- using on non-metallic and metallic material
- mounting flat in metal possible
- EEPROM memory
- especially designed for asset management of metal and non-metal objects

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



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

MTsp-U85-05

RFID Technology:	near field RFID system iID®4100, based on ISO 18000-6c, EPC Class1 Gen2		
Chip Types:	Impinj Monza 4QT or NXP UCODE G2XM		
Frequency range:	868MHz (European band)		
Min. Operating Power:			-8 dBm
Polarisation:			linear
Communication Rate:			forward link: 40-160kBit/s return link: 40-640kBit/s
Communication Distance:	0 ... 10 mm on non-metal 0 ... 10 mm 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	512 bit user memory, 240 bit EPC memory, 64 bit TID memory	
Special Functionality:		see chip manufacture data sheet	
Operating Temperature:	-40°C ... +85°C		
Storage Temperature:	-45°C ... +150°C		max. +180°C for short time
Dimensions:	Ø 8,5 +/- 0,1 mm, TH 2 mm		
Packaging Material:	PEEK case with EPOXY		
Mounting Instructions:	using flat in metal plane and printed side on top		
Marking:	laser printed (PEEK case)		optional: graphic printing
Appropriate RFID Reader:	POCKETsmart UHF P3 antenna PENsolid INDUSTRY UHF0605 others possible		mini handheld reader Bluetooth Mini-Reader stationary reader with external P3 antenna
HOST Command Set:	see actual API documentation of microsensys iID® driver engine		

Type :	18.934.500.00	18.941.500.00*	*) on inquiry
Chip Type:	Monza 4QT	NXP UCODE G2XM	
EPC/User Memory:	128/512	240/512	bit
Data Retention:	50		years
Communication Distance:	10	10	mm