

PRODUCT DATASHEET

iID® Transponder

MINI-TAGspecial U8.5

closed 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.

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microsensys
RFID in motion

MTsp-U85-05

RFID Technology:	near field RFID system iID® 4100, based on ISO 18000-6c, EPC Class1 Gen2		
Chip Types:	Monza 4QT, NXP UCODE G2XM or UCODE G2XL		
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		
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 :	18.941. 500.00*	18.934.500.00	*) on inquiry
Chip Type:	NXP UCODE G2XM	Monza 4QT	
EPC/User Memory:	240/512	128/512	bit
Data Retention:	50		years
Communication Distance:	20	30	mm