

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-U85-03

RFID Technology:	near field RFID system iID [®] 4100, based on ISO 18000-6c, EPC Class1 Gen2	
Chip Types:	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	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 INDUSTRY UHF0605 others possible	mini handheld reader stationary reader with external P3 antenna
HOST Command Set:	see actual API documentation of microsensys iID [®] driver engine	

Type :	18.941. 500.00	18.942.500.00	
Chip Type:	NXP UCODE G2XM	UCODE G2XL	
Packaging:	PEEK / EPOXY		
Memory:	512 (user)		bit
Data Retention:	50		years
Communication Distance:	10 /10		mm