

PRODUCT DATASHEET

iID® Transponder

D6.7-UTAGspecial

UHF-RFID transponder for industrial environmental conditions and using on metal

- passive RFID communication ISM UHF band, EPC Class1 Gen2 or ISO 18000-6C
- round TAG, half lens case, diameter 6.7 mm
- special EPOXY housing
- for mounting on objects including metal surfaces
- designed for item and object tagging

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



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RFID in motion

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

D6.7sp-UTAG 002

RFID Technology:	UHF closed coupling system iID®4000, based on ISO 18000-6c, EPC Class1 Gen2	
Chip Types:	NXP UCODE G2XM or Impinj Monza 5	
Frequency Range:	preferably EU ISM Band 860-868MHz	
Polarisation:	without polarisation, inductive coupled	
Communication Rate:	forward link: 40-160kBit/s return link: 40-640kBit/s	
Communication Distance:	0 ... 15 mm up to 500 mm with closed coupling UHF readers with inductive coupled external dipole in every case depending 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:	128 bit EPC, 64 bit TID 240 bit EPC, 64 bit TID Monza 5	
User Memory:	512 bit G2XM	
Special Functionality:	only G2XM see application note microsensys	
Operating Temperature:	-25°C ... +85°C	
Storage Temperature:	-45°C ... +125°C (for short time +150°C)	
Dimensions:	D 6.7 mm, max. TH 2.5 mm, half lens housing, total hermetically encapsulated with special EP	
Packaging Material:	EPOXY material code: 1111.2001.301.4321	
Mounting Instructions:	using on metal plane side on ground recommended glue: see application note	
Protection Class:	IP67	
Marking:	no marking optional, on inquiry: color dots	
Appropriate RFID Reader:	POCKETwork UHFcc wireless handheld reader PENsolid UHFcc wireless pen reader INDUSTRY 0906 UHF plus M18 UHFcc stationary industrial read write unit others possible	
HOST Command Set:	see actual API documentation of microsensys iID® driver engine	

Type :	18.911.252.00*	18.933.252.00	*on inquiry
Chip Type:	UCODE G2XM	Monza 5	
User Memory:	512	0	
Communication Distance:	10	10	mm

measured with M18 UHF antenna and IND 0906