

PRODUCT DATASHEET

iID® Transponder

MINI-TAGspecial 8.5

HF-RFID transponder, for extreme environment

- passive RFID communication 13.56 MHz
- round TAG, diameter 8.5 mm
- PEEK packaging
- on metal and flat mounting in metal possible
- designed for aircraft and automotive part tagging
- successful in industrial applications over 15 years

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

This TAG operates with *microsensys* standard RFID reader components and high sensitive demodulators.



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microSensys
RFID in motion

This data sheet is subject to change
contact *microsensys* for latest information

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RFID Technology:	closed coupling RFID system iID®2000, ISO 15693		
Chip Type:		SLIX-S, iID®M2, iID®G, iID®X others on request	
Carrier Frequency:	13.56 MHz		
Communication Rate:		down link 26.4 or 106 kbps	
Communication Distance:	0 ... 5 mm	dependent on reader antenna, chip type and metal environment	
Memory:	EEPROM	endurance >100.000 cycles, data retention 10 years or up to 60 years	
Memory Capacity:		2 kbit, 16 kbit and 64 kbit available	
Special Functionality:		see data sheet of chip manufacturer	
Operating Temperature:	-25°C ... +65°C		
Storage Temperature:	-45°C ... 160°C long term max. +85°C, short time 200°C		
Dimensions:	D 8.5 +/-0.1 mm, TH 2.0 mm		
Packaging Material:	PEEK, back side epoxy inlet mixed ferrite epoxy		
Marking:	laser printing		
Mounting Instructions:	using flat in metal possible plane and printed side on top		
	recommended glue: 2K-EP “plus endfest 300” UHU GmbH Germany		
Environment Condition:	IP67 and DO160 proved DO160 not all chip types		
Appropriate RFID Reader:	PEN reader	with RS232TTL, USB or Bluetooth interface,	
	POCKET reader	with USB and Bluetooth interface especially for mobile data capture	
	UNI13 or Q10	13.56 MHz read write module, for microsensys OEM partner only	
HOST Command Set:	see actual API documentation of microsensys iID® driver engine or data sheets of silicon chip manufacturer		
Software:	different software for Windows PC or mobile devices available, for application software please ask at info@microsensys.de		

Type :	15.72.502	15.82.502	15.54.502	15.47.502	* not for new projects
Chip Type:	iID-M2	iID-X	iID-G	SLIX-S	
Standard:	ISO 15693	ISO 15693	ISO 15693-2	ISO 15693	
Memory:	2k EEPROM	2k FRAM	16k EEPROM	1.28k EEPROM	bit
Communication Rate:	26.4	26.4	26.4	26.4	kbitps
Communication Distance:	3	3	3	3	mm
measured with PENmini					