

PRODUCT DATASHEET

iID® Transponder

D6.7special-TAG

HF-RFID coin size transponder, for industrial environmental conditions

- passive RFID communication 13.56 MHz
- round hard TAG, diameter approx. 7 mm
- EPOXY packaging
- for mounting on metal objects
- 2 kbit up to 64 kbit memory
- designed for item and object tagging

These transponder devices are an integral part of *microsensys* iID® system solutions. They are working optimal with *microsensys* standard RFID reader components and high sensitive demodulators.



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This data sheet is subject to change
contact [microsensys](mailto:info@microsensys.de) for latest information

D6.7sp-TAG 002.

RFID Technology:	closed coupling RFID system iID®2000/3000, ISO 15693 or 14443		
Chip Type:	SLI-X, iID®X, iID®G, iID®K others on request		
Carrier Frequency:	13.56 MHz		
Communication Rate:		down link 26.4 kbps or 106 kbps	
Communication Distance:	0 ... 10 mm	dependent on reader antenna, chip type and metal environment	
Memory:	EEPROM	endurance >10 ⁵ cycles, data retention > 10 (50) years	
	FRAM	endurance >10 ¹² cycles, data retention > 10 years	
Memory Capacity:		2, 16, 64 kbit available	
Special Functionality:	iID®X type is X ray suitable, see data sheet of chip manufacturer		
Operating Temperature:	-25°C ... +85°C		
Storage Temperature:	-45°C ... +125°C short time 150°C (1h)		
Dimensions:	approx. D 6.7 mm, max. TH 2.5 mm,		half lentil form
Packaging Material:	EPOXY	multi layer ferrite substrate EPOXY material in black	
Mounting Instructions:	using on metal, plane side on ground recommended glue: see application note		
Marking:	laser printing on inquiry		
Appropriate RFID Reader:	PEN reader	with RS232TTL, USB or Bluetooth interface,	
	POCKET reader	with USB and Bluetooth	
interface		especially for mobile data capture for industrial application	
	M30 or M18 HEAD	13.56 MHz read write module, for <i>microsensys</i> OEM partner only	
	UNI13 or Q10		
HOST Command Set:	see actual API documentation of <i>microsensys</i> 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:	11.32.550	11.44.550*	11.54.550	11.82.590*	11.26.550	*on inquiry
Special Features:	-	extreme long life	-	Xray suitable	high security	
Chip Type:	EM4135	SLIX	iID-G	iID-X	iID-K	
RF Standard:	ISO 15693	ISO 15693	ISO 15693-2	ISO 15693	ISO 14443-B	
Memory:	2; E ² PROM	2; E ² PROM	16; E ² PROM	16; FRAM	64; E ² PROM	kbit
Data Retention:	>10	>50	>10	>10	>10	years
Commun. Rate:	26.4	26.4	26.4	26.4	106	kbps
Write Time:	5	5	5	<0.5	5	ms