

PRODUCT DATASHEET

iID® Transponder

D7-TAG

HF-RFID coin size transponder, for industrial environmental conditions

- passive RFID communication 13.56 MHz
- round TAG, diameter 7 mm
- EPOXY packaging
- for mounting on nonmetal objects
- 1 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

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RFID Technology:	closed coupling RFID system iID®2000/3000, ISO 15693 or 14443	
Chip Type:		SLIX, 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 ... 15 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:		1, 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 Type B .100:	approx. D 7.0 mm, TH 1.9 +/-0.5 mm,	half lentil form, one side
Type C .200:	approx. D 7.0 mm, TH 2.5 +/-0.5 mm,	lentil form, both sides
Packaging Material:	EPOXY	FR4 substrate EPOXY material in black, other colours on inquiry not using on or flat in metal
Mounting Instructions:		Type .100: plane side on ground recommended glue: see application note
Marking:	laser printing on inquiry	
Appropriate RFID Reader:	PEN reader POCKET reader	with RS232TTL, USB or Bluetooth interface, with USB and Bluetooth interface especially for mobile data capture
	UNI13 or Q10	13.56 MHz read write module, for <i>microsensys</i> OEM partner only
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:	15.32.100/200*	15.47.100/200*	15.54.100/200	15.82.290*	15.26.100/200*	*on inquiry
Special Features:	-	extreme long life	-	Xray suitable	high security	
Chip Type:	EM4135	SLIX-S	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	1.28; 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