

PRODUCT DATASHEET

iID® Transponder

D14-TAG

HF-RFID coin size transponder, for industrial environmental conditions

- passive RFID communication 13.56 MHz
- round TAG, diameter 14 mm
- EPOXY packaging
- for mounting on nonmetal objects
- 1 kbit up to 64 kbit memory
- designed for item and object tagging
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This transponder device is an integral part of *microsensys* iID® system solutions. It operates optimal with *microsensys* standard RFID reader components and high sensitive demodulators.



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This data sheet is subject to change
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D14-TAG 007.doc

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 ... 30 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:	D 14 mm, max. TH 2.5 mm, half lens housing, one side EP
Type C .200:	D 14 mm, max. TH 3.0 mm, lens housing, both sides EP
Packaging Material:	EPOXY FR4 substrate EPOXY material in black, other colours on inquiry
Mounting Instructions:	not using on and flat in metal Type .100: plane side on ground recommended glue: see application note
Marking:	laser printed
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 <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:	12.32.100/200*	12.47.100/200	12.54.100/200	12.82.290*	12.26.100/200*	*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