PRODUCT DATASHEET

iID® Transponder

QUIN-TAGspecial

HF-RFID for industrial applications and harsh environmental conditions

- passive RFID communication 13.56 MHz
- hard TAG with stainless steel loop
- EPOXY casing, comfort multicolor printing possible
- re-useable mounting
- 1 kbit up to 256 kbit memory
- designed for item and object tagging, especially in transport and logistic, chemical industry, maintenance

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

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microSensys
RFID in motion

RFID Technology:	closed coupling RFID system iID®2000/3000, ISO 15693 or 14443	
Chip Type:		SLIX, SLIX-S, iID®X, iID®K, iID®L, iID®G others on request
Carrier Frequency:	13.56 MHz	
Communication Rate:		down link 26.4 or 106 kbps
Communication Distance:	0 ... 20 mm	dependent on reader antenna, chip type on metal application
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, 256 kbit available
Special Functionality:		iID®X type is X ray suitable, see data sheet of chip manufacturer iID®K and iID®L type, please ask microsensys
Operating Temperature:	-25°C ... +85°C	
Storage Temperature:	-45°C … +125°C	150°C for short time, high temperature on request
Dimensions:	approx. 33 x 30 mm, max. TH 3 mm	
Casing Material:	EPOXY	multi layer plastic package, carrier glass fibre reinforced, front side black EP
Marking:	standard laser printed, type 551	
		type 552:optional two colour tampon printing
		type 553: optional, only for SLIX, single colour label, coated
		type 554: optional, only for SLIX, with printed label, coated
Protection Class:	IP67	
Mounting Instructions:	fastening by screw or blind rivet, direct using on metal possible, plane side on metal	
Appropriate RFID Reader:	PEN reader	with RS232TTL, USB or Bluetooth interface,
	POCKET reader	with USB and Bluetooth interface, especially for mobile data capture
	M30 HEAD	with RS232 or USB interface
	INDUSTRY 0906	with RS232, USB, PCAN or Ethernet interface
	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:	**13.45.551**	**13.47.551***	**13.82.551***	**13.26.551**	**13.27.551***	**13.53.551**	*on inquiry
Special Features:	-	long life	Xray suitable	high security	high memory	-	
Chip Type:	SLIX	SLIX-S	iID-X	iID-K	iID-L	iID-G	
RF Standard:	ISO 15693	ISO 15693	ISO 15693	ISO 14443-B	ISO 14443-B	ISO 15693-2	
Memory:	0.896;E²PROM	1.2; E²PROM	16; FRAM	64; E²PROM	256;E²PROM	16; E²PROM	kbit
Data Retention:	>10	>50	>10	>10	>10	>10	years
Commun. Rate:	26.4	26.4	26.4	106	106	26.4	kbps
Write Time:	5	5	<0.5	5	5	5	ms