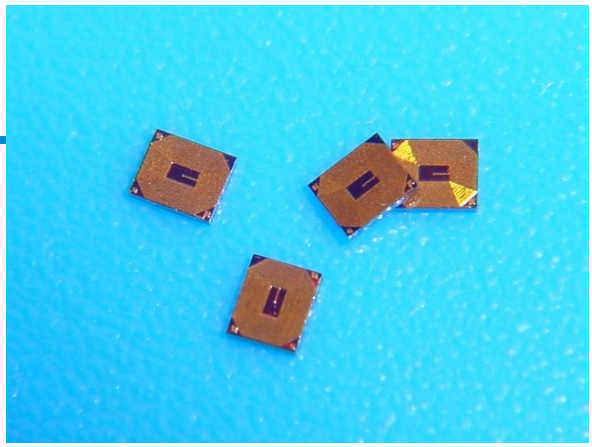
PRODUCT DATASHEET

iID® Transponder



mic3®-TAG 16kbit

HF-RFID miniature transponder,
produced in microsensys mic3 technology

- passive RFID communication 13.56 MHz
- antenna on silicon (coil on chip)
- smallest size transponder 1.6 x 1.9 x 0.5 mm³
- additional packing necessary
- 16 kbit or 32 kbit EEPROM memory
- designed for special item tagging and brand protection

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

mic3CHIP-16k 003

RFID Technology:	closed coupling RFID system iID®2000, based on ISO 15693	
Chip Type:		iID®-G, iID®-H others on request
Carrier Frequency:	13.56 MHz	
Communication Rate:		down link 26.4 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
Memory Capacity:		16 kbit or 32k bit EEPROM available
Special Functionality:		see data sheet of chip manufacturer
Operating Temperature:	-25°C ... +65°C	
Storage Temperature:	-25°C … 150°C	long term max. +85°C, short time 180°C
Dimensions:	chip size 1.9 x 1,6 mm, TH approx. 0.5 mm	other thickness on inquiry
Casing Material:	no extra packaging, blank silicon	the front side of the silicon chip is polyimide passivated
Delivery Package:	type 000	pour
	type 010	in waffle pack
	type 020	sawn and tested wafer, frame
Mounting Instructions:	special know how necessary	ask microsensys for special support
Marking:	no marking	
Appropriate RFID Reader:	PEN reader	with RS232TTL, USB or Bluetooth interface,
	POCKET reader K3	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 :	**10.53.004**	**10.54.004***	* on inquiry
Chip Type:	iID-G	iID-H	
Standard:	ISO 15693-2	ISO 15693-2	
Memory:	16,000; EEPROM	32,000; EEPROM	bit
Communication Rate:	26.4	26.4	kbps
Communication Distance:	3	3	mm
			measured with PENmini