

# PRODUCT DATASHEET

iID<sup>®</sup> Transponder

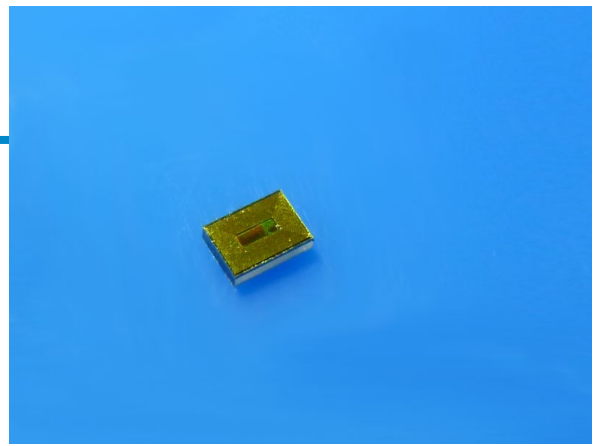
## mic3<sup>®</sup>-TAG 64kbit

HF-RFID miniature transponder,  
produced in microsensys mic3 technology

- passive RFID communication 13.56 MHz
- antenna on silicon (coil on chip)
- smallest size transponder 2.0 x 3.0 x 0.5 mm<sup>3</sup>
- additional packing necessary
- 64 kbit EEPROM memory, high security
- designed for special item tagging and anti-counterfeiting

These transponder device is an integral part of *microsensys* iID<sup>®</sup> system solutions.

This TAG operates with microsensys standard RFID reader components and high sensitive demodulators.



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RFID in motion

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This data sheet is subject to change  
contact microsensys for latest information

mic3CHIP-64k 002

<b>RFID Technology:</b>	closed coupling RFID system iID <sup>®</sup> 2000, based on ISO 15693	
<b>Chip Type:</b>		iID <sup>®</sup> -K others on request
<b>Carrier Frequency:</b>	13.56 MHz	
<b>Communication Rate:</b>		down link 106 kbps
<b>Communication Distance:</b>	0 ... 2 mm	dependent on reader antenna, chip type and metal environment
<b>Memory:</b>	EEPROM	endurance >100.000 cycles, data retention > 10 years
<b>Memory Capacity:</b>		64 kbit EEPROM available
<b>Special Functionality:</b>		see data sheet of chip manufacturer
<b>Operating Temperature:</b>	-25°C ... +65°C	
<b>Storage Temperature:</b>	-25°C ... 150°C	long term max. +85°C
<b>Dimensions:</b>	chip size 3.0 x 2.0 mm, TH approx. 0.5 mm	other thickness on inquiry
<b>Casing Material:</b>	no extra packaging, blank silicon	the front side of the silicon chip is polyimide passivated
<b>Delivery Package:</b>	type 000 type 010 type 020	pour in wafer pack sawn and tested wafer, frame
<b>Mounting Instructions:</b>	special know how necessary	ask microsensys for special support
<b>Marking:</b>	no marking	
<b>Appropriate RFID Reader:</b>	PEN reader POCKET reader K3 UNI13 or Q10	with RS232TTL, USB or Bluetooth interface, with USB and Bluetooth interface especially for mobile data capture 13.56 MHz read write module, for microsensys OEM partner only
<b>HOST Command Set:</b>	see actual API documentation of microsensys iID <sup>®</sup> driver engine or data sheets of silicon chip manufacturer	
<b>Software:</b>	different software for Windows PC or mobile devices available, for application software please ask at info@microsensys.de	

<b>Type :</b>	<b>10.26.004.00</b>	* on inquiry
<b>Chip Type:</b>	iID-K	
<b>Standard:</b>	ISO 14443B	
<b>Memory:</b>	64,000; EEPROM	bit
<b>Communication Rate:</b>	106	kbps
<b>Communication Distance:</b>	1.5	mm
		measured with PENmini