

# PRODUCT DATASHEET

iID® Transponder

## Q43S-TAG

### Smart and robust HF / UHF - RFID transponder

- passive RFID transponder supporting:
  - o 13.56 MHz ISO15693 HF communication
  - o dual band NFC / UHF communication
  - o NFC high memory
  - o ISO14443 secure communication
- optional customized label printing (barcode etc.)
- standard on metal (non-metal version also available)
- LEGIC key management system (on inquiry)
- designed for item and object tagging



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**microSensys**  
RFID in motion

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

Q43S-TAG 003

<b>RFID Technology:</b>	close coupling RFID system iID®2000/3000		
<b>Chip Type:</b>	EM4423 ECHO, SLIX-S, NTAG216, ATC4096* others on request		
<b>Carrier Frequency:</b>	13.56 MHz / 868 MHz (type .01 only)		
<b>Communication Rate:</b>	down link up to 424 kbps		
<b>Communication Distance:</b>	0 ... 40 mm, depending on reader antenna and chip type		
<b>Memory:</b>	EEPROM endurance >10 <sup>5</sup> cycles, data retention >10 years without refresh		
<b>Memory Capacity:</b>	see below table		
<b>Special Functionality:</b>	dual-band (type .01 only)		
<b>Operating Temperature:</b>	-25°C ... +65°C		
<b>Storage Temperature:</b>	-45°C ... +85 (recommended 25°C)		
<b>Dimensions</b>	43x27 mm, max. TH 5 mm		
<b>Packaging Material:</b>	EPOXY, PU		PA66 substrate
<b>Mounting Instructions:</b>	for non-metal surfaces on metal device Q43S-TAGspecial available plane side on ground recommended glue: see application note, optional self-adhesive pad label with single colour print, optional customized single colour print		
<b>Marking:</b>			
<b>Appropriate RFID Reader:</b>	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 microsensys OEM partners only	
<b>HOST Command Set:</b>	see current API documentation of microsensys iID®driver engine or ISO18000-3 compatible command set, see data sheets of silicon chip manufacturer data		
<b>Software:</b>	different software for Windows PC or mobile devices available, for application software please contact <a href="mailto:info@microsensys.de">info@microsensys.de</a>		

Type:	DUAL BAND	HF	NFC	LEGIC advant*
<b>Product code:</b>	16.954.422	13.470.422	13.496.422	13.140.422
<b>Special Features:</b>	NFC and close coupling UHF	standard	NFC compatible	Security protocol
<b>Chip Type:</b>	EM4423 ECHO	SLIX-S	NTAG216	ATC4096-MP311
<b>RF Standard:</b>	ISO 14443 A ISO 18000-6c	ISO 15693	NDEF	ISO 14443 A
<b>Memory:</b>	1920 bit	1280 bit	888 Bytes	4096 Bytes
<b>Data retention:</b>	>10	>50	>10	years

\*in development or on inquiry