

# PRODUCT DATASHEET

iID® RFID Transponder

## LABEL 1836special

13.56 MHz transponder for industrial applications:

- part and equipment tagging
- especially designed for maintenance applications
- optional barcode printings and TAG initialization
- TAG on metal possible

This transponder package is available with various chip types. They are integral part of *microsensys* iID system solutions. Lentiform transponder devices are very useful for product identification in industry and administration especially for tagging of metal objects.

*microsensys* offers an attractive component platform for close coupling RFID solutions.



**microsensys**  
RFID in motion

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*microsensys* GmbH – In der Hochstedter Ecke 2 - D 99098 Erfurt  
TEL +49-361-598740  
contact us for latest information  
MAIL info@microsensys.de

<b>Carrier Frequency:</b>	13.56 MHz
<b>Technology:</b>	RFID system iID®2000, close coupling, based on ISO 15693
<b>Memory:</b>	EEPROM, endurance >100.000 cycles, data retention >10 years, ID-No and user OTP possible
<b>Comm. Distance:</b>	up to 30 mm, dependent on reader antenna and metal environment
<b>Dimensions:</b>	approx. 20 x 38 mm <sup>2</sup> , max. TH 2.0 mm limited flexibility (minimum bend radius 50mm)
<b>Case Material:</b>	chip in multi ferrite layer packaging, front side clear PU, hermetic encapsulation
<b>Mounting Instructions:</b>	self-adhesive, direct on-metal use possible
<b>Packaging Units:</b>	on 181 x 288.4 mm page, 28 pieces per page
<b>Optional Services:</b>	graphic printing (customer logo, bar code, running number) memory personalization and initialization
<b>Operating Temperature:</b>	-25°C ... +65°C
<b>Storage Temperature:</b>	-25°C ... +80°C
<b>Protection Class:</b>	IP64
<b>Appropriate RFID Reader:</b>	PEN reader, UNI13, POCKET mini, CFC reader, M30 HEAD and more
<b>HOST Command Set:</b>	see current API documentation of <i>microsensys</i> iID driver engine or data sheets of silicon chip manufacturer

<b>TAG Types</b>	<b>13.42.686.00*</b>	<b>13.45.686.00</b>	
<b>System:</b>	ISO 15693	ISO 15693	
<b>Chip Type:</b>	I-CODE SLI	I-CODE SLIX	
<b>Memory Capacity</b>	1k RW	1k RW	bit
<b>Comm. Rate</b>	26.4	26.4	kbps
<b>Comm. Distance</b>	20	20	mm

measured with P13 reader antenna type, \*) on inquiry

