

# PRODUCT DATASHEET

iID® Transponder

## U-TAG STRIPE0565sp

### small UHF TAG for on metal and non metal

- passive RFID communication ISM UHF band, EPC Class1 Gen2 EEPROM memory
- EEPROM memory
- small form factor TAG for plastic and metal devices
- especially designed for asset management
- for use in high temperature and harsh environmental conditions

This transponder device is an integral part of *microsensys* iID® system solutions.



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U-STRIFE0565sp 003

<b>RFID Technology:</b>	far field UHF	based on ISO 18000-6c, EPC Class1 Gen2
<b>Chip Types:</b>		NXP UCODE 7/8, UCODE G2XM, on inquiry: Alien H3
<b>Frequency Range:</b>	860-960MHz	
<b>Polarisation:</b>		linear
<b>Communication Rate:</b>		forward link: 40-160kBit/s return link: 40-640kBit/s
<b>Communication Distance:</b>	up to 1.5 m	(tested on polycarbonate and aluminium) dependent on reader system and environmental conditions
<b>Memory:</b>	EEPROM	endurance 100000 cycles, data retention 10 year (T<55°C) features are depending on used RFID chip
<b>Memory Capacity:</b>	TID, EPC and user memory	see table
<b>Special Functionality:</b>		see chip manufacture data sheet
<b>Operating Temperature:</b>	-40°C ... +85°C	
<b>Storage Temperature:</b>		-45°C ... +180°C, max. 180°C for short term, up to 200°C on inquiry
<b>Dimensions:</b>	65 x 5 mm	
<b>Thickness:</b>		total thickness max. 3mm
<b>Casing Material:</b>	epoxy, reinforced with glass fibre	
<b>Mounting Instructions:</b>		see application note
<b>Marking:</b>	optional	laser printed
<b>Appropriate RFID Reader:</b>	POCKET UHF CASIO IT-800 UHF INDUSTRY 0906 UHF others possible	pocket reader handheld industry computer stationary reader with integrated or separate antenna
<b>HOST Command Set:</b>	see actual API documentation of <i>microsensys</i> iID® driver engine	

<b>Type :</b>	<b>16.948.521.00</b>	<b>16.947.521.00*</b>	<b>16.941.521.00</b>	
<b>Chip Type:</b>	UCODE8	UCODE 7	UCODE G2XM	
<b>Memory TID//EPC//USER:</b>	96 // 128 / 0	96 // 128 / 0	64 // 240 / 512	bit
<b>Data Retention:</b>	50	50	50	years

\*) on request