



iID®

HF/UHF RFID Transponders

Label • Identify

Overview

MINIATURIZED TRANSPONDERS



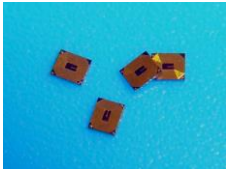
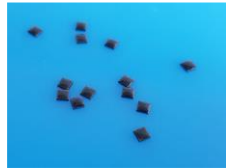

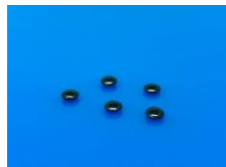

Powerful technology - on the tip of a needle

microsensys has been providing our patented mic3[®] technology since the mid-90s, creating the world's smallest RFID transponder with an integrated coil-on-chip antenna the size of approximately 1.5mm³.

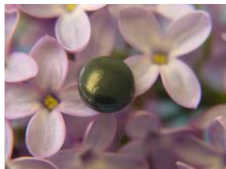




With a memory capacity up to 32 kbit, read/write, and resistance to both low and high temperatures (from -80°C up to +200°C), our highly reliable mic3[®] transponders can be produced very efficiently in large numbers by the consistent use of wafer processes.

Because of their very small size, mic3[®] RFID transponders fit even significantly limited space and can be used to uniquely identify or manage the data of otherwise unobservable items – all while withstanding extreme environmental conditions.

Overview – iID[®] Miniaturized Transponders

TAG Type	Picture	Product Code	Technicals	Remarks
mic3 16k HF		10.53.004.00	Size: 1.9x1.6x0.5mm Communication Distance: 0...5mm Storage Temperature:-25°C...+150°C ISO15693, iID [®] -G	User memory 16 kbit, not for new projects discontinued model
Q1.6 U-TAG UHF		19.948.100.00	Size: 1.6x1.6x0.5mm Communication Distance: 0...20mm Storage Temperature:-45°C...+125°C ISO18000-6c: NXP UCODE 7/8	User memory on request
Qmini U-TAG 2.5 UHF		19.948.102.10	Size: 2.4x2.4x0.41mm Communication Distance: 0...25mm Storage Temperature:-45°C...+125°C (short time +150°C) ISO18000-6c: NXP UCODE 8	Mini transponder mounting non metal and on metal, DNA on request
D4-TAG HF		11.47.100.40 11.47.200.40	Size: D3.8x1.2mm Communication Distance: 0...10mm Storage Temperature:-45°C...+125°C ISO1569: SLIX-S	User memory extreme long life 1.3 kbit, NFC compatible
MINI-TAG 4.5 special HF, UHF		11.47.515.00 18.933.514.00	Size: D4.5x2.0mm Communication Distance: 0...10mm Storage Temperature:-45°C...+125°C ISO15693: SLIX-S /ISO18000-6c: Monza 5	Special case for embedding in metal

Overview – iID[®] Miniaturized Transponders

TAG Type	Picture	Product Code	Technicals	Remarks
D5-TAGspecial HF		11.47.550.00	Size: D5x2.5mm Communication Distance: 0...10 mm Storage Temperature:-45°C...+150°C (short time +180°C) ISO15693: SLIX-S	on metal, plane side
D6-TAG HF		11.35.100/200	Size: D6x1.5/2.5mm Communication Distance: 0...20mm Storage Temperature:-45°C...+125°C ISO15693: iID [®] -P	for mounting on nonmetal objects
D6.7-TAGspecial HF, UHF		11.44.550 11.72.550 11.82.550 18.933.252	Size: D6.7x2.5mm Communication Distance: 0...15mm Storage Temperature:-45°C...+125°C ISO15693: SLIX-S, iID [®] -M2, iID [®] -X ISO18000-6c: Monza 5	Round hard TAG for mounting on metal
D7-TAG HF		15.47.100/200/210 15.72.100/200/210 15.82.100/200/210	Size: D7.0x1.5/1.9/2.5mm Communication Distance: 0...20mm Storage Temperature:-45°C...+125°C ISO15693: SLIX-S, iID [®] -M2, iID [®] -X	different memory's up to 16 kbit, NFC compatible
MINI-TAG 8.5 special HF, UHF		15.47.502 15.72.502 15.82.502 18.934.500	Size: D8.5x2.0mm Communication Distance: 0...10mm Storage Temperature:-45°C...+160°C ISO15693: SLIX-S, iID [®] -G, iID [®] -M2, iID [®] -X ISO18000-6c: Monza 4QT	Special case for embedding in metal, different memory's up to 16 kbit

Overview

VARIOUS TRANSPONDERS



Our transponders become yours.

Integrating RFID transponders in screws, cable ties, key chains or other small objects has been part of microsensys' special services for many years.

We constantly develop new transponder designs and can shape our solutions to your wishes, considering all the specifics of your utilization – be it harsh environments, unusual temperatures or the intended use in industrial applications.

As an additional service, we offer printing or lasering transponders individually, be it with a logo, serial number, barcode, data matrix or UID.

Upon request, we initialize RFID transponders according to your specifications.






microsensys also provides transponders with special authentication and data encryption methods, i.e. transponders whose stored data is not accessible without knowledge of certain passwords or keys.

Ask us about it - we will absolutely find a solution for you!






Overview – iID® Various Transponders

TAG Type	Picture	Product code	Technicals	Remarks
Label D11special HF		12.45.681	Size: D13x1.5mm Communication Distance: 0...10mm Storage Temperature:-25°C...+65°C ISO15693: SLIX	For on metal application
D14-TAG HF, UHF		12.47.100/200/550 12.72.100/200/550 12.82.100/200/550 12.934.200	Size: D14x3mm Communication Distance: 0...30mm Storage Temperature:-45°C...+125°C ISO15693: iID®-M2, SLIX-S, iID®-X ISO18000-6c: IMPINJ Monza 4QT	Round hard TAG for mounting on metal and nonmetal, NFC compatible, FRAM on request
D14 V6special-TAG HF		12.47.550.60	Size: D14x3mm Communication Distance: 0...15mm Storage Temperature:-45°C...+100°C ISO15693: SLIX-S	Round hard TAG for integration in shields, NFC compatible
D22 V6special-TAG HF, UHF		13.47.560.60	Size: D22x5mm Communication Distance: 0...25mm Storage Temperature:-45°C...+65°C ISO15693: SLIX-S ISO18000-6c: Alien Higgs	Round hard TAG for integration in shields, NFC compatible or EPC Class1 Gen2 on request
D24special-TAG HF, UHF		13.47.450 13.82.490	Size: D6.7x2.5mm Communication Distance: 0...25mm Storage Temperature:-45°C...+125°C ISO15693: SLIX-S, iID®-X ISO18000-6c: Alien Higgs	Round hard TAG for mounting on metal, NFC compatible or EPC Class1 Gen2 on request




Overview – iID® Various Transponders

TAG Type	Picture	Product Code	Technicals	Remarks
Label 1836 HF, UHF		13.42.686	Size: 20x38x2mm Communication Distance: 0...30mm Storage Temperature: -25°C...+80°C ISO15693: SLIX	Flexible label for mounting on metal
Q43S-TAG HF		13.470.422 13.496.422 13.140.422	Size: 43x27x5mm Communication Distance: 0...40mm Storage Temperature: -25°C...+65°C ISO15693: SLIX-S ISO14443: NTAG216, LEGIC® Advant	Printing or lasering possible, NFC compatible, high security, for mounting on metal
UHF Plate2570 UHF		16.932.453.01	Size: 25x70x4mm, stainless steel plate 1mm Communication Distance: 0...1 m Storage Temperature: -45°C...+125°C ISO18000-6c: IMPINJ M4	Large range, using under very harsh environmental conditions
U-TAG STRIPE0525sp UHF		16.948.521 16.941.521	Size: 65x5x3mm Communication Distance: 0...1.5 m Storage Temperature: -25°C...+85°C ISO18000-6c: UCODE 8, UCODE G2XM	Large range, for mounting on metal, User memory
Q72 U-TAG UHF		16.911.151	Size: 72x18x4.5mm Communication Distance: 0...4 m Storage Temperature: -25°C...+85°C ISO18000-6c: UCODE G2XM	Large range, for mounting on metal, User memory

Overview – iID® Various Transponders

TAG Type	Picture	Product Code	Technicals	Remarks
QUIN-TAGspecial HF		13.47.551 13.72.551 13.82.551	Size: 33x30x3mm Communication Distance: 0...20mm Storage Temperature: -45°C...+125°C ISO15693: iID®-M2, SLIX-S, iID®-X	stainless steel loop, NFC compatible, FRAM on request, Different colors possible
KEY-TAG HF		12.47.700	Size: 58x32x5mm Communication Distance: 0...10mm Storage Temperature: -10°C...+65°C ISO15693: SLIX-S	Different colors possible
TIE-TAG HF		13.45.776/12.54.700 13.47.776/12.47.760 13.82.776/12.82.790 ...	Size: 19x19x7mm / 27x27x7mm / 7x7x7mm Communication Distance: 0...40mm Storage Temperature: -45°C...+125°C ISO15693: iID®-G, iID®-M2, SLIX, SLIX-S, iID®-X	With different cable tie, NFC compatible, FRAM on request, In different sizes available, reusable
U-TAG TIE-i UHF		18.933.777	Size: 195x8.5(4.6)mm Communication Distance: 0...20mm Storage Temperature: -20°C...+85°C ISO 18000-6c: Monza 5	Integrated transponder in cable tie, not reusable
SCREW-TAG HF		15.72.811/812 15.54.811/812	Size: SW14, SW17 Communication Distance: 0...5mm Storage Temperature: -25°C...+100°C ISO15693: iID®-G, iID®-M2	TAG embedded in metal screw

Overview – iID® Various Transponders

TAG Type	Picture	Product Code	Technicals	Remarks
U-LABEL 2696 UHF		17.933.613 17.935.613	Size: 25.4x95.3mm Communication Distance: 0...600mm Storage Temperature: -40°C...+85°C ISO18000-6c: IMPINJ Monza R6-P, 4QT	Adhesive label for cable and rope management, customized printing possible
U-LABEL 1773 UHF				
QUIN-UTAG UHF		13.947.551	Size: 20x38x2mm Communication Distance: 0...300mm Storage Temperature: -10°C...+65°C ISO18000-6c: NXP UCODE7	Printed label different colors possible or additional laser marking

Overview

DUAL FREQUENCY TRANSPONDERS






Two-in-one solution

microsensys provides you with the newest chip technology supporting UHF *and* HF communication standards in *one* RFID transponder. All DUAL Band UHF/HF RFID transponders are compatible with readers using ISO15693 /18000-3, NFC forum type 5 and ISO 18000-63, EPC Gen2v2 standards.

With the accessible shared memory capacity of up to 248 bytes, read and write operations can be directed from UHF or HF reader systems. Our DUALTAGs can be mounted by glue or adhesive pad on non-metal or metal surfaces.

Specifically designed for facility management, mobile maintenance and asset management, we offer personal customization including an optional printing service for your company's logo, bar- oder QR-codes, or data matrix codes on all transponder types.

Overview – iID® DUAL BAND Transponders


TAG Type	Picture	Product Code	Technicals	Remarks
Label 1836-DUALTAGspecial HF&UHF		16.380.686.00	Size: 20x38x4.5mm Communication Distance HF: 0...30mm, UHF: 0...150/500mm (non-metal/metal) Storage Temperature:-40°C...+85°C ISO 15693, ISO 18000-6c, Em echo-V	Dual frequency, shared memory, max. 248 Byte, Printing possible
Q43S-DUALTAGspecial HF&UHF		16.954.452.00	Size: 43x27x5mm Communication Distance: 0...20mm Storage Temperature:-40°C...+85°C ISO 15693, ISO 18000-6c, Em echo-V	Printing or lasering possible, for mounting on metal
Q40100-DUALTAGspecial HF&UHF		16.380.459.00	Size: 40x100x7mm Communication Distance HF: 0...80mm UHF: 0...6,5m Storage Temperature:-40°C...+85°C ISO 15693, ISO 18000-6c, Em echo-V	customer logo, running number and TAG initializing

Overview

TAG MODULES AND INLAYS



Overview – iID® TAG modules for OEM

TAG Type	Picture	Product Code	Technicals	Remarks
R5.3 TAG-module 1.3k HF		11.470.032.01	<p>Size: D5.3 x 1.0 mm Communication Distance HF: 0...30mm, Storage Temperature:-40°C...+85°C ISO 15693: SLIX-S Delivery: electronic tag module in foil bag, for OEM integration</p>	
R18 TAG-module 1.3k HF		13.47.032.04	<p>Size: D18 x 1.0 mm Communication Distance HF: 0...30mm, Storage Temperature:-40°C...+85°C ISO 15693: SLIX-S Delivery: electronic tag module in foil bag, for OEM integration</p>	
R30 TAG-module oder D9.7 TAGmodule INLAY D11 HF		12.47.620.01	<p>Size: D10.8 x 0.5 mm Communication Distance HF: 0...30mm, Storage Temperature:-40°C...+85°C ISO 15693: SLIX-S Delivery: electronic tag module in foil bag, for OEM integration</p>	



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Questions?

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