CONNECT
FORWARD

SECURITAG ASSEMBLY GROUP

RFID Tagging
Challenges Enabler

Co-bulid with SAGLab to Champion Your Success

SAG RFID

Contact Us for More Information

412039 No. 99, Renhuagong 2nd Rd., Dali Dist., Taichung City , Taiwan
Tel：+886-4-2492-5298
Web：www.SAG-rfid.com
E-mail：info@sag.com.tw

Contact Us

SAG-rfid.com

QC080000:2012
H581533 IECQ

ISO14001
EMS 589628

ISO9001:2008
FM 59667

V202604-RN

SAG is the *RFID Tagging Challenges Enabler*

SAG rises to conquer RFID tagging challenges, driven by excellence in tailored antenna design, material science, and self-developed machinery capabilities, connecting the world through digital identification and help our customers to connect forward.

Products and Solutions

SAG leverages consulting strength and integrated process capabilities to deliver specific tagging solutions for your needs. Our diverse form factors cater to application-specific values, enhancing operational efficiency and paving the way for future-proof connectivity.

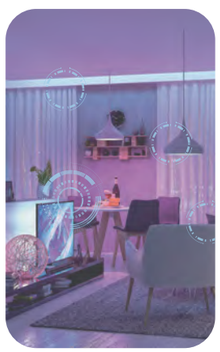
Read more on page 05

Our Business and Services

Encompass Full Spectrum of Applications

We focus on the most complex challenges and customize your end-to-end tagging solution across high-end vertical segments.

Smart Healthcare



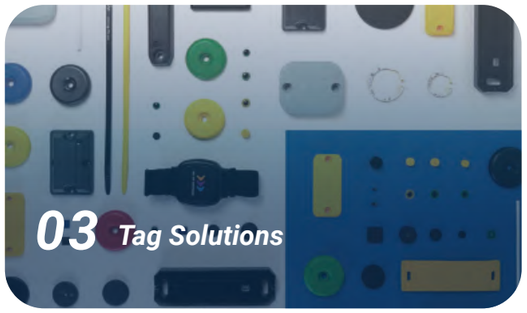
AIoT

Industrial

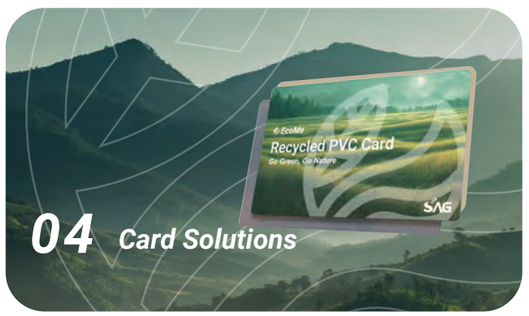
Security

RFID+1

Read more on page 07



Read more on page 11



Read more on page 21

Read more on page 23

SAG's journey

1999 — Established
Founded SAG, Securitag Assembly Group.

2001 — Certified
Acquired Legic and Philips Mifare Arsenal Certificates. Certified to ISO9001: 2000.

2004 — Certified
Approved to produce RFID transponders with SONY FeliCa chip.

2010 — Product Portfolio
Introduced smart label into product portfolio.

2010 — Certified
Certified to ISO9001: 2008.

2011 — Certified
Certified to ICQ QC080000.

2013 — Certified
Certified to ISO14001:2004. Achieved SONY Green Partner.

2015 — Enlisted
Listed in Taipei Exchange.

2016 — Established
Established SAG Japan.

2017 — Joined
Joined AIM, RAIN Alliance and NFC Forum.

2018 — Certified
Certified to Mastercard CQM.

2019 — Certified
Certified to ISO13485 for healthcare applications.

2020 — Certified
Certified to IATF16949 for automotive industry applications

2023 — Relocated
Relocated to the new headquarter, SAGopolis, TAIWAN.

2024 — Certified
Received the LEED silver certification for Building Design and Construction (BD+C) program.

2024 — Hosted
Hosted RAIN Alliance and NFC Forum Connections Summit.

2024 — Product Portfolio
Introduced EcoMe Series into product portfolio.

2025 — Partnership
Selected as NXP's Gold Partner.

2025 — Certified
Certified to ISO50001 and ISO14064-1for eco-friendly standards.

2026 — Certified
Certified to FIDO specifications.

2026 — Certified
Certified to ISO14067 for greenhouse gas (GHG) management.

Certifications

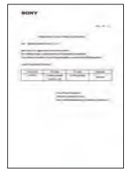
■ ECO-FRIENDLY


ISO 14001


ISO 15001


ISO 14064-1


ISO 14067


Sony Green Partner

LEED Silver®

■ OCCUPATIONAL HEALTH & SAFETY


ISO 45001

■ QUALITY MANAGEMENT


ISO 13485


ISO 9001:2015


IECQ QC080000


IATF 16949


CQM

■ TECHNOLOGY CERTIFICATION


NXP Gold Partner

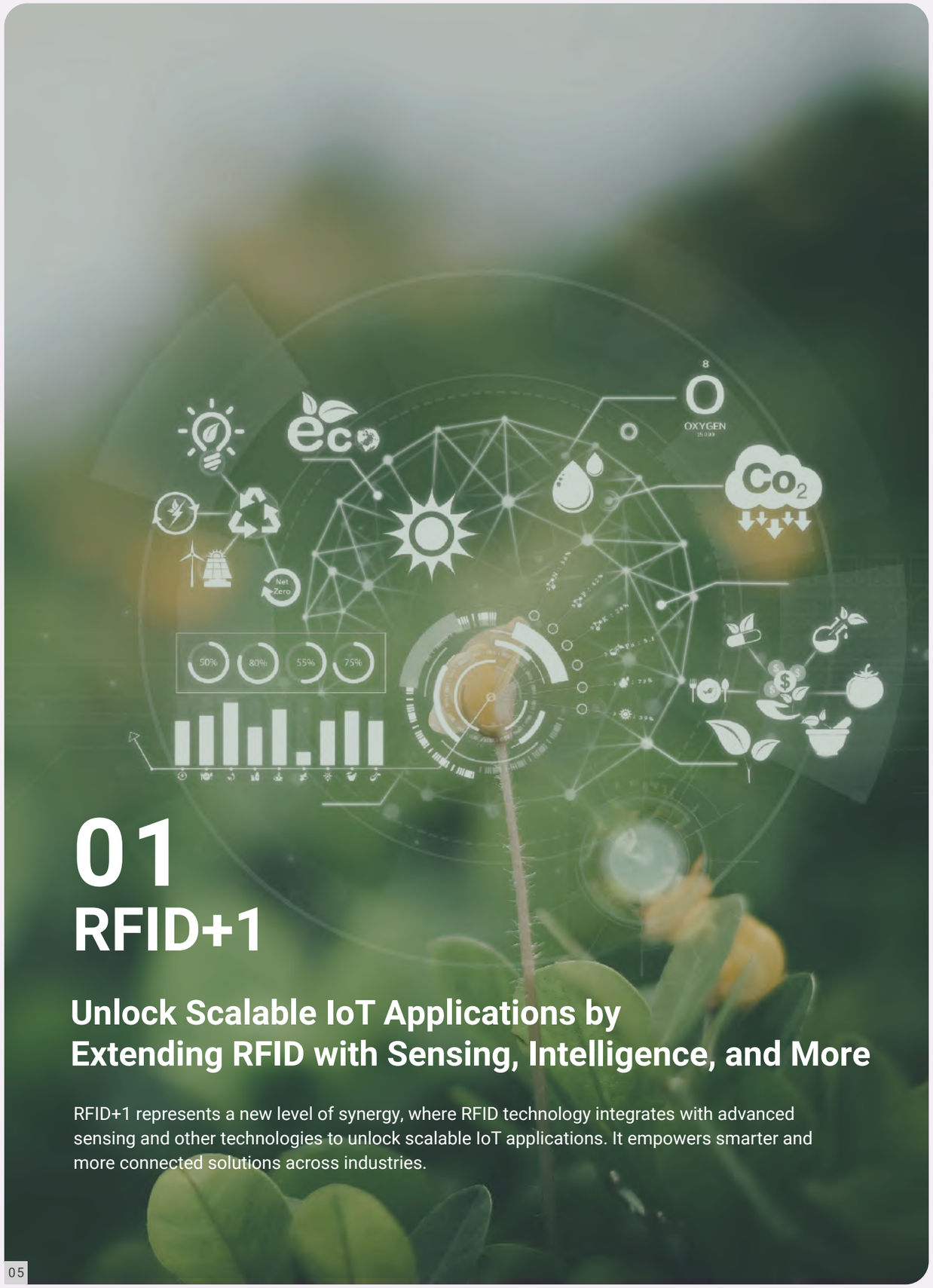
LEGIC


NFC Certificate

ISO 13485 | IATF 16949
Quality Certified

RAIN ALLIANCE | NFC FORUM
Industrial Association

Digi-Key
Shop SAG In Digi-Key



01
RFID+1

Unlock Scalable IoT Applications by Extending RFID with Sensing, Intelligence, and More

RFID+1 represents a new level of synergy, where RFID technology integrates with advanced sensing and other technologies to unlock scalable IoT applications. It empowers smarter and more connected solutions across industries.

Temp Tracker HF

SAG Temp Tracker, an NFC-enabled label with App support, measures temperature during the transport of temperature-sensitive substances such as vaccines and perishables.

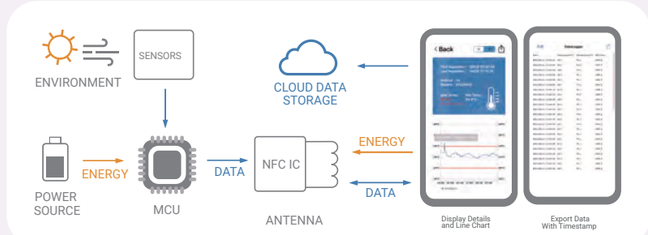
Features

1. Plug and Play Solution (App ready on iOS/Android)
2. Temperature accuracy of ±0.5°C from -20°C to 60°C
3. Offers 700 hours of battery life or supports up to 4,000 data records, ensuring reliable performance throughout the product's service life

Specification:

- Dimension: L 85.6 x W 54 x T 1 mm
- Operating Temperature: -20°C to 60°C
- Storage Temperature: -20°C to 60°C
- IP Rating: IP54
- Data Logging: Up to 4,000 records
- Logging Intervals: Min 60 to Max 630 sec
- Battery Life: 700 hours after product activation or 6 months under inactive mode in room temperature

How Temp Tracker Works:



LumiID - LED Tag

UHF

The combination of RFID and LED helps light up to indicate what you are looking for from a distance.

Features:

1. Semi-active LED lighting from translucent housing
2. A variety of mounting methods (via screw, cable tie or double-sided tape)

Specification:

- Dimension: L 100 x W 30 x T 9 mm
- Operating Temperature: -30°C to 60°C
- Storage Temperature: -20°C to 60°C
- Battery type: User-replaceable CR2032, 3 volt

Method of Fixation:


Cable


Screw


Quick Item Locating


Easy Storage Bin Searching

Dynamic Tag Module
(Ferrite Type / Molding Type)

HF

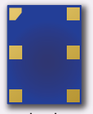
Ferrite Type


front


back

Molding Type

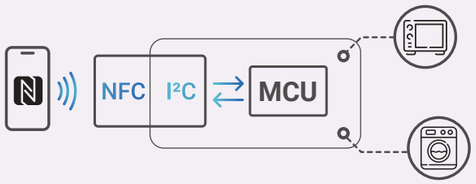

front


back

The Dynamic Tag Module integrates the antenna and IC into a compact unit with a dual-interface design, supporting NFC (NDEF-compliant) and I²C communication. It enables seamless integration with sensors and electronics via standard SMT. I²C provides direct system connectivity, while NFC enables wireless data access and configuration which is ideal for advanced IoT applications.

Specification:

- Dimension:
  Ferrite Type: L 8.0 x W 6.0 x T 1.35 mm
  Molding Type: L 8.0 x W 6.0 x T 0.75 mm
- Material: Ferrite / PCB
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -40°C to 85°C



ISO Standard	IC & Application Note
	Non-Metal
14443	ST M24SR02-Y
15693	ST25DV04K

02
Label Solutions

Achieve Item-Level Tracking and Gain Full Visibility

Explore our comprehensive RFID label portfolio, engineered for diverse applications. From asset tracking to supply chain management, our solutions enable businesses to improve efficiency, enhance security, and ensure accurate data capture at scale.

Production Capability

Material and Structure

- Facestock:
  art paper, PET/PP synthetic paper with glossy finish
- Facestock adhesive: permanent adhesive
- Antenna material: aluminum
- Antenna substrate: PET
- Label adhesive:
  Available options for specific applications, like high-temp resistance or extreme cold environments.
- Release liner: Glassine

Label Structure

Production Capability

Personalization

Full color pre-printed on facestock.Thermal transfer printing for UID, serial number, barcode/QR code, data encoding service

Quality Control

- Antenna: 100% SAG-developed Self Resonance Frequency (SRF) test
- Inlay and Label: 100% reading test
- Cross mark (x) is put onto NG piece (Premium roll is an option for consecutive good labels.)

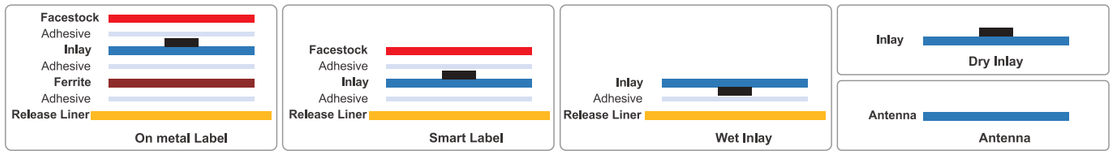
Reliability Test

- Environmental test: heat and cold; thermal shock
- Dynamic durability test: die shear, bending
- Electrical-resistant test: ESD test according to IEC 61000-4-2 contact discharge

Packaging Options

- Standard package: paper core
- Optional package: PC core for high end application

Product Format



Label Value-added Services

▸ ShieldX

Glob-top Chip Protection

Better resistibility to physical impact and environmental stress

▸ FreezX

Deep Freeze Application

Specialized label to survive ultra-low temperature (-80 °C / -112 °F).

Special Label Solutions

LiquidMate O

UHF

UHF Anti-liquid Label Solution

LiquidMate O is a category-defining RFID label designed for scalable pharmaceutical traceability. It overcomes interference across various injectable categories, enabling a single label to be used across multiple products. Meanwhile, it is optimized for curved surfaces, ensuring reliable tagging on glass vials. LiquidMate O also maintains high-density reliability, delivering consistent performance and accurate tracking even in crowded storage environments. Based on anti-liquid technology, we can provide customized product solutions for handling liquid-filled containers in other use cases.

Specification:

- ▸ Die Cut Dimension: L62 x W20 mm
- ▸ Operating Temperature: -40°C to 85°C
- ▸ Storage Temperature: -40°C to 85°C
- ▸ RFID Chip: Impinj M781
- ▸ EPC /User Memory: 128/512 bits
- ▸ Frequency : 902-928(FCC - US)

MetalPal - Slim

UHF

UHF Metal Label Solution

Built on a ferrite-based structure, MetalPal - Slim is engineered for reliable outdoor operation, maintaining consistent performance even in high-humidity environments. With broadband capability and stable read sensitivity, MetalPal – Slim enables dependable UHF RFID asset tracking across diverse metal surfaces, delivering consistent data capture wherever durability and space efficiency matter most.

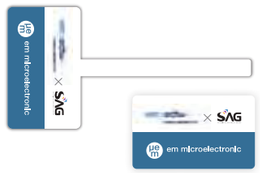
Specification:

- ▸ Die Cut Dimension: L70 x W25 x T0.66 mm
- ▸ Operating Temperature: -40°C to 85°C
- ▸ Storage Temperature: -40°C to 85°C
- ▸ RFID Chip: Impinj M830
- ▸ EPC Memory: 128bits
- ▸ Frequency : 902-928(FCC - US)

Label Solutions

Dual Frequency RFID Label HF UHF

This special label can operate on both NFC and RAIN RFID (UHF) technologies. Powered by em | echo-V chip (EM4425), it provides an application crossover and opens up the possibility to apply just one label to fit all use cases in two domains.



Specification:

- ▶ Dimension: L 30 x W 50 mm
  L 100 x W 50 mm (Tamper Proof)
- ▶ RFID Chip: EM4425
- ▶ Operating Temperature: -25°C to 70°C
- ▶ Storage Temperature: -25°C to 70°C

Windshield Label UHF

Applying this label onto windshield to get a hands-free parking experience. The chip area is coated to enhance its UV protection capability when the label is exposed to the direct sunlight. Meanwhile, the label has security cut for tamper evident when removal.

Specification:

- ▶ Dimension: L 106.5 x W 28.5 mm
- ▶ RFID Chip: NXP UCODE 8
- ▶ Operating Temperature: -40°C to 80°C
- ▶ Storage Temperature: -40°C to 80°C

MetalPal - Curved UHF

MetalPal - Curved is a high-performance RAIN RFID (UHF) smart label engineered for metal items with curved surfaces. Measuring 38 x 10 mm, it offers a versatile tracking solution for items with limited space for tags. Its flexible design delivers exceptional reading range and reliability on pipes, tubes, and tools. Ideal for asset and inventory management, MetalPal - Curved streamlines tracking of complex metal items that standard labels fail to perform.

Specification:

- ▶ Dimension: L 38 x W 10 mm
- ▶ RFID Chip: Impinj M781
- ▶ Operating Temperature: -25°C to 85°C
- ▶ Storage Temperature: -25°C to 85°C

MetalPal - Classic UHF
(Roll to Roll)

This roll-to-roll UHF label provides superior reading performance while offering higher data transfer speeds. It is suitable for asset management and inventory control.

Specification:

- ▶ Dimension: L 75 x W 25 x T 1.3 mm
- ▶ RFID Chip: NXP UCODE8
- ▶ Operating Temperature: -25°C to 70°C
- ▶ Storage Temperature: -25°C to 70°C

UHF Metal Label UHF
(Single Piece)

90x28 On-metal Label provides excellent performance and long read range up to 4 meters. Its performance goes well on metallic objects for various applications.

Specification:

- ▶ Dimension: L 90 x W 28 x T 0.8 mm
- ▶ IP Rating: IP68
- ▶ Operating Temperature: -40°C to 85°C
- ▶ Storage Temperature: -40°C to 85°C
- ▶ RFID Chip: Impinj Monza 4QT

UHF Label UHF

Label with customized die cut size is upon request.

Model								
Die cut size (mm)	48 x 48	53 x 53	12 x 26	19 x 30	19 x 44	33 x 53	6 x 94	Ø15
Antenna size (mm)	● 44 x 44	51 x 51	● 8 x 22	● 16 x 26	● 15 x 40	● 30 x 50	● 3 x 90	● Ø12
Available chip	Impinj Monza 4	Impinj Monza 4QT	Impinj Monza 4	Impinj Monza 4QT	NXP UCODE 8	NXP UCODE 8	Impinj Monza 4	Impinj Monza 4E

● library ● apparel ● near-field ● logistics, asset management

	Tamper Proof Label		
Die cut size (mm)	30 x 45	52 x 52	42 x 26.5
Antenna size (mm)	Embedded Antenna by IC type		37 x 21
Mifare Classic EV1	●	●	
Mifare DESFire EV1 (4K/8K)	●	●	
Mifare Ultralight EV1	●	●	
Mifare Ultralight C	●		
NTAG213	●	●	
ICODE SLIX	●	●	
Legic MIM256	●	●	
Legic ATC1024 / ATC256	●		
ST25TV02KC-T			●

● for non-metal application (all in reel format)
● for on-metal application (all in reel format)
● provided in single piece

										CD/DVD Label	
Die cut size (mm)	Φ15	Φ18	Φ25	Φ27	Φ27	Φ28	Φ29	Φ38	29 x 29	Φ35 center hole 16	Φ38 center hole 16
Antenna size (mm)	Φ13	Φ16	Φ23	Φ23	Φ24.2	Φ25	Φ25	Φ34	Φ25	coil antenna	Φ35
EM4102										●	
EM4332							●				
Mifare Ultralight EV1				●			●				
Mifare Ultralight C							●				
Mifare Classic EV1 1K			● ●	●							
Mifare Classic EV1 256B							●				
NTAG 213	●						● ●	●	●		●
NTAG 215			● ●				● ●				
NTAG 216			● ●				● ●				
NTAG 424 DNA	●	●					●				
ICODE SLIX							● ●	●			●
ICODE SLIX 2			● ●				●				
FeliCa RC-S966							● ●				
ST25TA02KB	●						●				
ST25TV512							●				
ST25TV02K			●				●				
ST25TV512C			●			●					
ST25TN01K	●						●				
Tag-it HF-I Plus/ I Pro					●						

										Cube
Die cut size (mm)	10 x 10	12.5 x 12.5	14 x 14	14.5 x 14.5	16 x 16	18 x 18	19 x 19	18 x 35	26.5 x 42	54 x 86	50.8 x 50.8
Antenna size (mm)	8.5 x 8.5	10.5 x 10.5	12 x 12	10.5 x 10.5	12 x 12	14.5 x 14.5	15 x 15	14 x 31	22.5 x 38	45 x 76	45 x 45
Mifare Ultralight EV1									●	●	
Mifare Ultralight C									●	●	
Mifare Classic EV1 1K									●	●	
NTAG 213			●		●		● ●	●	● ●	●	
NTAG 213 TT									●		
NTAG 215					●		●		●		
NTAG 216					●		●		●		
NTAG 424 DNA / TT					●						
ICODE SLIX	●	●		●			●	● ●	●		●
ICODE SLIX-S									●		
ICODE SLIX 2								●	● ●		
ICODE ILT-M								●			
FeliCa RC-S966							●				
ST25TA02K		●									
ST25TA02KB					●						
ST25TV512								●			
ST25TV02K		●		●		●					●
ST25TV02KC						●			●		●
Tag-it HF-I Plus									●	●	●
Tag-it HF-I Pro									●	●	●

03
Tag Solutions

Enable the Full Potential of RFID with Versatile Tag Form Factors

Designed for demanding environments, our hard tags deliver stable performance under extreme temperatures, high humidity, and metal interference. With a wide range of sizes and designs, they ensure reliable deployment across diverse surfaces and industrial applications.

UHF Specialty Tag Solutions

Beyond standard RFID tags, SAG offers a range of specialty tags designed for unique applications and challenging environments. From visual indicators to form-specific designs, these tags demonstrate how RFID can go further—enabling smarter, more interactive, and highly customized solutions.

ECORE

Flexible by Design, Build to Embed: ECORE Pro Survives in Demanding Environments

ECORE Pro / Wide

ECORE Pro

ECORE Pro Wide

UHF

Discover how ECORE Pro delivers unmatched flexibility and durability for industrial applications. Built for demanding environments, it enables real-time visibility, IoT integration, and a smarter path to Industry 4.0.

Specification:

- ▶ Dimensions:
  ECORE Pro: L 76 x W 2.5 x T 1.5 mm
  ECORE Pro Wide: L 90 x W 5.4 x T1.5 mm
- ▶ Operating Temperature: -40°C to 85°C
- ▶ Storage Temperature: -40°C to 85°C

Flexible

Resistance to
Damage by Flexing ≥ 1,000 times
(ISO 7854)

Industrial Laundry-resistant

Proven for ≥ 100 wash cycles
(AATCC 135)

High Temp Resistance

Peak Temperature 210 °C for 2 mins
(FTTS-YA-186)

Chemical Resistance

Acid - pH 4.0: 105°C for 6 hrs
Alkali - pH 12.0: 135°C for 4 hrs
(FTTS-YA-186)

Ring Tag

D20 mm

D30 mm

UHF

Ring Tag requires no adhesive or screws. Instead, it is effortlessly press-fitted and drilled into a metal item to ensure a seamless and sleek finish.

Specification:

- ▶ Dimension: D 30 x T 2.4 / D 20 x T 2.3 mm
- ▶ Applicable Surface: In-metal
- ▶ RFID Chip: NXP UCODE 8
- ▶ Operating Temperature: -40°C to 85°C
- ▶ Storage Temperature: -40°C to 85°C
- ▶ Frequency: 865-868 MHz(ETSI - EU), 902-928(FCC - US)

UHF Tag Solutions

From overmolded industrial tags to flexible on-metal options, our UHF lineup supports logistics, asset tracking, RTIs, and tool management— ensuring durable and consistent performance in demanding environments.

MetalEvo

UHF

MetalEvo's slim design fits narrow structures. With versatile mounting options and durable housing, it performs reliably on metal surfaces and withstands harsh outdoor environments.

Specification:

- Dimension: L 78 x W 21 x T 11 mm
- Material: Nylon
- Applicable Surface: On-metal
- RFID Chip: NXP UCODE 8 / UCODE 9xm
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -40°C to 120°C
- IP Rating: IP68
- Frequency: 865-868 MHz(ETSI - EU), 902-928(FCC - US)

Overmolded Brick Mini Metal Tag

UHF

Powered by NXP UCODE 8/9xm, Overmolded Brick Mini Metal Tag fits small spaces while providing superior reading performance for its size.

Specification:

- Dimension: L 50 x W 25 x T 6 mm
- Material: Nylon
- Applicable Surface: On-metal
- RFID Chip: NXP UCODE 8 / UCODE 9xm
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -40°C to 120°C
- IP Rating: IP68
- Frequency: 865-868 MHz(ETSI - EU)
  Frequency: 902-928(FCC - US)

Overmolded Square Metal Tag

UHF Dual

Overmolded Square Metal Tag features its global band with robust housing for on-metal applications such as returnable containers and reusable logistics assets.

Specification:

- Dimension: L 53 x W 44 x T 11 mm
- Material: Nylon
- Applicable Surface: On-metal
- RFID Chip: NXP UCODE 8 / UCODE 9xm
  EM4425
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -40°C to 120°C
- IP Rating: IP68
- Frequency: Global 860-960 MHz

Overmolded Uni Metal Tag

UHF

Overmolded Uni Metal Tag is designed to be read in the rear of a metallic object. It helps realize applications where a traditional metal tag sees a challenge. This tag sees no obstacles and makes front reading not the only choice.

Specification:

- Dimension: L 52 x W 23 x T 5.7 mm
- Material: Nylon
- IP Rating: IP68
- Applicable Surface: On-metal
- RFID Chip: NXP UCODE 8
  IMPINJ M830
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -40°C to 125°C
- Peak temperature resistant 200°C/1Hr
- Frequency: 865-868 MHz (ETSI-EU)
  902-928 MHz (FCC-US)

HeatX Brick Metal Tag-PPS

UHF HEAT

HeatX - Brick is a RAIN RFID (UHF) tag built with durable PPS plastic, delivering reliable performance in harsh or chemical environments.

Specification:

- Dimension: L 54 x W 36 x T 13 mm
- Material: PPS
- Applicable Surface: On-metal
- RFID Chip: NXP UCODE 8 / UCODE 9xm
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -55°C to 150°C
- IP Rating: IP68
- Frequency: 865-868 MHz(ETSI - EU), 902-928(FCC - US)

Chemical Resistance Remark

- PPS Standard

H2SO4 10%	168 hours	NaOH 10%	168 hours
HNO3 40%	168 hours	Acetic Acid 100%	5 mins

CHEMICAL RESISTANCE PHD-13

On-metal Stick Tag

LF HF UHF

On-metal Stick Tag is built with industrial grade plastic to withstand harsh conditions. The tag can be mounted on items with metal surface by using adhesive or screw in the 4.5mm central hole. The flat surface can be laser-marked with logo or numbering to assist visual identification.

Specification:

- Dimension: OD 34 x ID 4.5 x T 6 mm
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -40°C to 100°C
- Frequency:
  865-868 MHz (ETSI-EU) / 902-928 MHz (FCC-US)
- Material: Nylon
- Applicable Surface: On-metal
- IP Rating: IP68

Color Options:

- Yellow / Green / Blue / Red / Black

TPV Flexible Tag

UHF

RAIN RFID (UHF) TPV Flexible Tag, made of thermoplastic vulcanizate (TPV), is ideal to fit a curved surface on a non-metal item. This tag can also go to metal items by fixing the yellow tag with Panduit cable tie to one hole. It ideally acts as an inspection tag when placed on equipments or machines.

Specification:

- Dimension: L 25.5 x W 83 x T 3 mm
- Material: TPV
- IP Rating: IP68
- Applicable Surface: Non-metal
- RFID Chip: Impinj Monza 4QT
- Operating Temperature: -40°C to 70°C
- Storage Temperature: -40°C to 70°C
- Frequency: Global 860-960 MHz

Overmolded Stick Tag

LF HF UHF

With a central hole, Overmolded Stick Tag can be easily fixed on non-metal objects for warehouse management, process control and asset tracking.

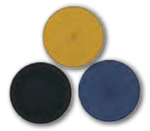
Specification:

- Dimension: OD 22 x ID 3 x T 3.1 mm HF
  OD 30 x ID 5 x T 3 mm HF UHF
- Material: Nylon
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -40°C to 120°C
- Dimension: OD 30 x ID 5 x T 2.5 mm LF HF
  OD 50 x ID 5x T3 mm LF HF
- IP Rating: IP68
- Applicable Surface: Non-metal
- Frequency: 865-868 MHz (ETSI-EU)
  902-928 MHz (FCC-US)

Token Tag

LF HF UHF

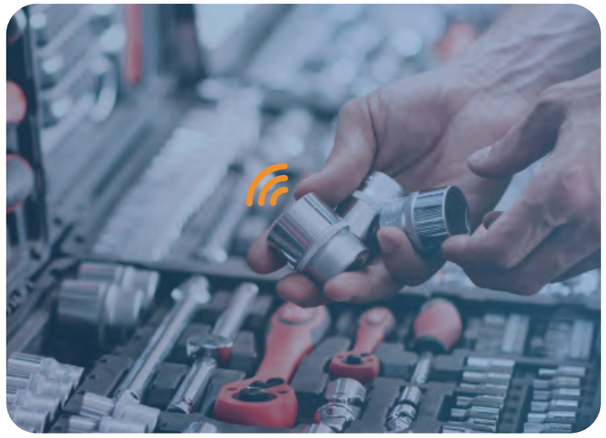
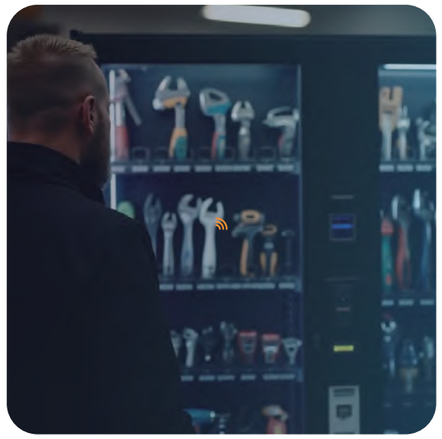
Token Tag is created by polycarbonate into a coin shape. It is popular for vending machine and toll collection application.



Specification:

- Dimension: D 30 x T3 mm
- IP Rating: IP68
- Applicable Surface: Non-metal
- Material: PC / ABS+PC
- Operating Temperature: -25°C to 70°C/-10°C to 50°C
- Storage Temperature: -40°C to 90°C/-20°C to 50°C



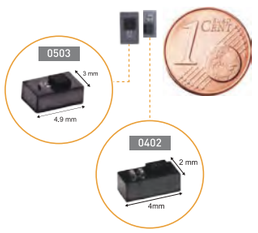

CoreX Series Embeddable Tag Solutions

With a compact form factor, embeddable tags fit seamlessly into space-constrained products while maintaining durability and performance. Ideal for tool tracking, medical instruments, industrial equipment, and brand protection, they deliver reliable performance in harsh environments and extreme temperatures—providing secure, space-efficient identification where it matters most.

CoreX NFC Ferrite Tag

HF — HEAT

NFC Ferrite tag 0503 and 0402 (the smallest in the category) are designed to empower a device with NFC function. Crafted for operation in free-air and on-metal environments respectively, they are also suitable for SMT process.



0503 Specification:

ISO Standard	IC & Application Note	
	On-Metal	Non-Metal
14443	NTAG213	NTAG213
	ST25TA02K	ST25TA02K
15693	ICODE SLIX 2	ICODE SLIX 2
	ST25TV02K	ST25TV02K
	MB89R118	MB89R118

0402 Specification:

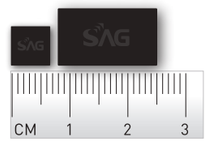
ISO Standard	IC & Application Note	
	On-Metal	Non-Metal
15693	ICODE SLIX 2	ICODE SLIX 2
	ST25TV02K	ST25TV02K

- Dimension:
  0503: L 4.9 x W 3.0 x T 2.4 mm
  0402: L 4.0 x W 2.0 x T 2.0 mm
- Material: Ferrite
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -80°C to 220°C

NFC Chip

IC Type	Type 2 IC	Type 3 IC	Type 4 IC	Type 5 IC
Standards	ISO/IEC14443A	ISO/IEC 18092 JISX 6319-4 Felica	ISO/IEC14443A/ IEC14443B	ISO/IEC15693
Read/Write Speed	106 Kbit/s	212 Kbit/s - 424 Kbit/s	106 Kbit/s	26 Kbit/s (up to 53)
Anti-collision	Yes	Yes	Yes	Yes
Dynamic NFC ICs	NXP NTAG I²C		M24SR02-Y	ST25DV04K
NFC ICs	NXP NTAG213 NXP NTAG213TT(Tag Tamper) NXP NTAG215 NXP NTAG216 NXP MIFARE Ultralight EV1 NXP MIFARE Ultralight C ST25TN EM4332	Sony Felica RC-S966	ST25TA02K/16K/64K-P ST25TB512/04K NXP DESFire EV1/EV2/EV3 NXP NTAG424 DNA NXP NTAG424 DNA TT	ST25TV512C/02KC ST25TV512/02K EM4425 NXP ICODE SLIX2

CoreX Molding Tag



HF UHF — HEAT

Molding Tag is an embeddable RFID tag. With enhanced protection to the chip and antenna, this tag can withstand higher temperature and environmental impact than PCB Tag.

Specification:

- Dimension: L 6.7 x W 6.7 x T 0.75 mm (HF UHF)
  L 17 x W 9.8 x T 0.75 mm (UHF)
- Material: PCB + Compound
- IP Rating: IP67
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -80°C to 200°C
- Peak Temperature: 250°C for 24 hrs (HF)
  200°C for 240 hrs (UHF)

CoreX Molding Metal Tag

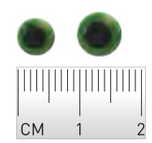
HF — HEAT

Molding Metal Tag is a hassle-free tag solution in a miniaturized form factor for on-metal applications. With enhanced protection to the chip and antenna to guarantee its resistibility under harsh environment.

Specification:

- Dimension: D 6 x T 0.9 mm
- Material: PCB + Compound
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -80°C to 200°C
- IP Rating: IP67

CoreX PCB Tag



HF

PCB Tag is ideal for small containers or applications that require a small RFID tag when there is limited tagging space. We also provide smallest-ever metal tag with tuned frequency to fit your on-metal application.

Specification:

- Dimension:
  D 6 x T 1.1mm (on metal)
  D 6.75 / 7.5 x T 0.9 mm (non-metal)
- Material: PCB
- Operating Temperature: -25°C to 55°C
- Storage Temperature: -25°C to 85°C
- IP Rating: IP65

CoreX Plug Metal Tag

HF

Plug Metal Tag resembles a metric bolt (M7 x P1.0) to be screwed or plugged into a metallic item. It works with an inductive coupler or NFC-enabled device from reading inside metal. Ideal for production control or asset management.

Specification:

- Dimension: M 7 x P 1 x H 4 mm
- Material: Nylon
- Applicable Surface: In-metal
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -40°C to 120°C
- IP Rating: IP68

LF / HF Tag Solutions

With versatile formats including cable tie, stick-on, and screw-mount designs, these tags integrate easily into tools, machinery, cables, and reusable assets. Compatible with LF , HF and NFC standards, they're ideal for access control, asset authentication, and industrial tracking scenarios.

HeatX - SQ51

LF HF HEAT

HeatX - SQ51 is designed to meet industrial and automotive applications with harsh working conditions. Made from PPS, this robust tag offers great resistance to high-temperature, mechanical stress and most chemicals. The high-temperature tags have been successfully tested to sustain 220°C for 1000 hours. Meanwhile, HeatX-SQ51 features a user-friendly screw mount design, making installation quick and hassle-free.

Specification:

- Dimension: L 51 x W 51 x T 6.4 mm
- Material: PPS
- IP Rating: IP68
- Storage Temperature: -20°C to 85°C
- Operating Temperature: -20°C to 85°C
- Peak Temperature: 220°C / 1000hrs HF

HeatX On-metal Stick Tag - PPS

HF HEAT

The HeatX On-metal Stick Tag-PPS utilizes PPS plastic for peak performance in high-temperature and corrosive environments. Designed for metal surfaces, this rugged RFID tag offers screw, adhesive, or zip-tie mounting to accelerate installation across industrial, automotive, and logistics sectors.

Specification:

- Dimension: OD 34 x ID 4.5 x T 6 mm
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -40°C to 100°C
- Peak Temperature (PPS): 200°C / 50 hrs
  -55°C / 72hrs
- Material: PPS
- Applicable Surface: On-metal
- IP Rating: IP68
- Frequency:
  865-868 MHz (ETSI-EU) / 902-928 MHz (FCC-US)

Chemical Resistance Remark

▶ PPS Standard

H_2SO_4 10%	168 hours	NaOH 10%	168 hours
HNO_3 40%	168 hours	Acetic Acid 100%	5 mins

CHEMICAL RESISTANCE PHO-13

Cable Tie Tag

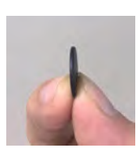
HF

Cable Tie Tag fastens items securely for tracking and workflow control. One-time use ensures tamper resistance with NFC support; black version additionally offers UV resistance and laser marking.

Specification:

- Dimension: L 195 x W 8.3 x T 1.3 mm
- Material: Nylon
- Flammability Classification: UL94 V-2
- Min: Tensile Strength: 215 Nm
- Storage Temperature: -20°C to 85°C
- Operating Temperature: -20°C to 85°C
- IP Rating: IP68

Button Tag



LF HF

Button Tag is available in a range of small sizes. It is ideal for a size-constrained object or a limited area where RFID is needed.

Specification:

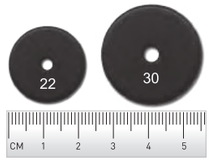
- Dimension: D 10 x T 1.8 mm HF
  D 14.5 x T 3 mm
- Material: Nylon
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -40°C to 90°C
- IP Rating: IP68
- Applicable Surface: Non-metal

- Dimension: D 16 x T 1.3 mm HF
- Material: Nylon
- Operating Temperature: -25°C to 80°C
- Storage Temperature: -25°C to 80°C
- IP Rating: IP68
- Applicable Surface: Non-metal

- Dimension: D 12.4 x T 2mm LF
  D 20 x T 2.5 mm
- Material: Nylon
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -40°C to 90°C
- IP Rating: IP68 / IP69K
- Applicable Surface: Non-metal

- Dimension: D 22 x T 3 mm HF
- Material: Nylon
- Operating Temperature: -25°C to 85°C
- Storage Temperature: -40°C to 120°C
- IP Rating: IP68
- Applicable Surface: Non-metal

Overmolded Metal Stick Tag



HF

Overmolded Metal Stick Tag (size 22/30mm in diameter) has a slim but robust housing for industrial applications. The tag can be mounted to items with metal surface by using adhesive or screw in the 3.1/5mm central hole. The flat surface can be laser marked with logo or numbering to assist visual identification.

Specification:

- Dimension: OD 22 x ID 3.1 x T 3 mm
  OD 30 x ID 5 x T 3 mm
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -40°C to 120°C
- Material: Nylon
- Applicable Surface: On-metal
- IP Rating: IP68

GF Stick Tag

LF HF

GF Stick Tag can be put on non-metallic surface for tracking, data recording or regular patrol purpose.

Specification :

- Dimension: OD 20 x ID 3 x T 1.6 mm LF
  OD 30 x ID 3.2 x T1.6 mm LF HF
  OD 50 x ID 3 x T 1.6 mm HF
  OD 50 x ID 4.3 x T 1.6 mm LF
- Material: GF
- Operating Temperature: -25°C to 85°C
- Storage Temperature: -25°C to 120°C
- IP Rating: IP67
- Applicable Surface: Non-metal

ABS Stick Tag

LF HF

The simple and conventional tag offers a quick and easy tagging function for asset management or process control.

Specification:

- Dimension: OD 30 x ID 3.3 x T 2.3 mm
- Material: ABS
- Applicable Surface: Non-metal
- Operating Temperature: -10°C to 50°C
- Storage Temperature: -20°C to 70°C
- IP Rating: IP66

Overmolded Square Tag

HF

Produced by overmolded process, it can resist the heat, pressure and chemical in harsh environment. It is also ideal for industrial applications where a robust and durable tag is needed.

Specification:

- Dimension: L 13 x W 13 x T2 mm
- Material: Nylon
- Applicable Surface: Non-metal
- Operating Temperature: -30°C to 90°C
- Storage Temperature: -40°C to 120°C
- IP Rating: IP68

PVC Stick Tag

LF HF

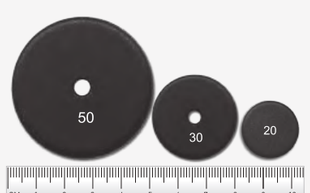
PVC Stick Tag is a coin-shaped RFID transponder designed for use on non-metal surface. This waterproof RFID Tag (IP68) can be fixed to an item with a screw.

Specification:

- Dimension: OD 35 x ID 3.3 x T 1.8 mm
- Material: PVC
- Applicable Surface: Non-metal
- Operating Temperature: -15°C to 55°C
- Storage Temperature: -15°C to 75°C
- IP Rating: IP68

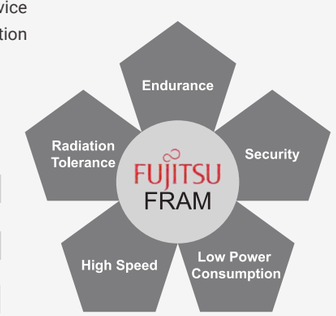
Overmolded Type Tag Embedded with FRAM Technology HF

Discover our range of specialty RFID tags featuring radiation hardness to facilitate medical device sterilization in the irradiation process. With fast writing capabilities, these tags excel in tool identification and management, elevating operational precision in factory automation.



Comparison of FARM with EEPROM

	FRAM	EEPROM
Type	Non-volatile	Non-volatile
Writing Method	Overwriting	Erase(byte)+write
Write Cycle Time	150ns	3ms
Endurance	10 billion	1 million



Disc Tag

LF HF

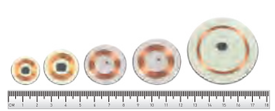
Disc Tag is a coin-shaped RFID transponder designed for use on non-metal surface. It is a waterproof RFID Tag (IP68) and can be profiled into different sizes.
Disc Patch Tag is Disc Tag with a sticker so that it can be attached to an item in a quick and easy way.
Stick Patch Tag has both a sticker and a hole in the middle for easy attachment.

Specification:

- Dimension: D 20 / 25 / 30 / 35 / 50 x T 1.1 mm (without adhesive T 0.8 mm)
- Material: PVC
- Applicable Surface: Non-metal
- Operating Temperature: -15°C to 55°C
- Storage Temperature: -15°C to 75°C
- IP Rating: IP68

Clear Disc Tag

LF HF



Clear Disc Tag is designed for use on non-metal surface. It is a cost-effective RFID Tag due to its simple form factor and it can be made in different sizes.
Clear Disc Patch Tag is Clear Disc Tag with a sticker so that it can be attached to an item in a quick and easy way.

Specification:

- Dimension: D 20 / 25 / 30 / 35 / 50 x T 1.0 mm (without adhesive)
- Material: PET
- Applicable Surface: Non-metal
- Operating Temperature: -15°C to 55°C
- Storage Temperature: -15°C to 75°C
- IP Rating: IP65

GF Disc Tag

LF HF

GF Disc Tag can be put on non-metallic surface for tracking, data recording or regular patrol purpose.

Specification:

- Dimension : D 20 x T 1.6 mm LF
  D 25 x T 1.6 mm LF
  D 30 x T 1.6 mm LF HF
  D 50 x T 1.6 mm LF
- Material: GF
- Operating Temperature: -25°C to 85°C
- Storage Temperature: -25°C to 120°C
- IP Rating: IP67
- Applicable Surface: Non-metal

On-Metal Tag

LF HF

On-Metal Tag has a hard PVC substrate topped with soft Epoxy. With adhesive, it can be attached to any metallic surface.

Specification:

- Dimension: L 65 x W 25 x T 3.5 mm
- Material: PVC + Epoxy
- Applicable Surface: On-metal
- Operating Temperature: -25°C to 55°C
- Storage Temperature: -25°C to 75°C
- IP Rating: IP68

Screw Tag

HF

Screw Tag resembles a metric bolt (M10x1.5). This tag is designed to be screwed into a metallic object (tapped with thread) and work with inductive couplers. Ideal for production control and asset management.

Specification:

- Dimension: M 10 x P1.5 x H6 mm
- Material: Nylon
- IP Rating: IP68
- Applicable Surface: In-metal
- Operating Temperature: -25°C to 85°C
- Storage Temperature: -25°C to 85°C
- RFID Chip: Fijitsu MB89R118

Wristband Solutions

Adjustable Wristband

HF UHF

Human body is composed of water which causes interference to the wristband's reading performance when people wear it. This hands-free solution helps you get access into a place without the need to reach your keyfob or card to the reader . It brings convenience and comfort for your access control .

Specification:

- Dimension: L 40.5 x W 44 x T 11 mm
- Material: ABS
- Applicable Surface: Wearable
- RFID Chip: NXP UCODE 8
- Operating Temperature: -25°C to 55°C
- Storage Temperature: -25°C to 65°C
- IP Rating: IP67
- Frequency : 865-868 MHz(ETSI - EU), 902-928(FCC - US)

Disposable Wristband

HF UHF

It features disposable use and lower cost to be an economical choice for some temporary applications. The button provides the band with tamper proof function.

Specification:

- Dimension: L 270 x W 34 mm
- Material: PP
- Operating Temperature: -25°C to 50°C
- Storage Temperature: -25°C to 50°C
- Frequency: 865-868 MHz (ETSI-EU), 902-928 MHz (FCC-US)

S Band

HF

S Band has a slim and stylish design of its kind. A variety of colors are available. Custom logo and numbering can be done to make it more attractive.

Specification:

- Dimension:
  C 220 x H 16 x T 7.5 mm (Xtra Large)
  C 196 x H 16 x T 7.5 mm (Adult)
  C 180 x H 16 x T 7.5 mm (Young)
  C 152 x H 16 x T 7.5 mm (Child)
- Material: Silicone
- Operating Temperature: -25°C to 85°C
- Storage Temperature: -25°C to 140°C
- IP Rating: IP68

Color Options:

- Red / Pink / Yellow / Light Green / Dark Green / Grey
  Light Blue / Dark Blue / Purple / White / Black / Orange

Silicone Wristband

LF HF

Silicone Wristband Tag is another tag solution to deal with water or high humidity environment. It has been widely adopted in gym, swimming pool, and waterpark.

Specification:

- Dimension:
  C 210 x H 16 x T 7.5 mm (Xtra Large)
  C 195 x H 16 x T 7.5 mm (Adult)
  C 180 x H 16 x T 7.5 mm (Young)
  C 152 x H 16 x T 7.5 mm (Child)
- Material: Silicone
- Operating Temperature: -25°C to 85°C
- Storage Temperature: -25°C to 140°C
- IP Rating: IP68

Color Options:

- Red / Pink / Yellow / Light Green / Dark Green
  Light Blue / Dark Blue / Purple / White / Black

04
Card Solutions

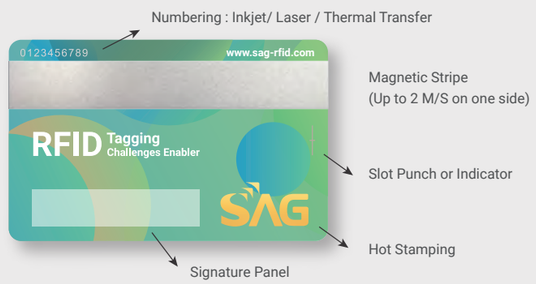
Built for Secure Access Across Commercial and Residential Environments

Our RFID cards are engineered with PVC, PETG, or PETF materials, offering enhanced durability and heat resistance up to 110°C. With flexible printing options, surface finishes, and numbering features, we enable fully customized card solutions tailored to your application needs.

Card Structure

Printing Options:
- Offset
- Silk Screen
- Thermal Re-transfer

*Customized shape
*Thickness upon request



FIDO2 Card

HF

The FIDO2 Card is a unified corporate credential that combines passwordless digital authentication, physical access control, and on-card employee identification in a single secure card. Built on the global FIDO2 standard, it enables phishing-resistant authentication through proven cryptographic protocols, binding high-security digital identity directly to a physical card.

Specification:

- Dimension: L 85.6 x W 54 x T 0.8 mm
- Material: PVC
- IP Rating: IP68
- Operating Temperature: -25°C to 50°C
- Storage Temperature: -25°C to 50°C
- RFID Chip:NXP JCOP4.5 + DESFire EV3C

Certified to FIDO specifications

HeatX PC Card

HF HEAT

Designed for harsh automotive environments, the PC Card is an industrial-grade credential built with high-temperature-resistant polycarbonate and CCC-approved MIFARE DESFire EV3.

Specification:

- Dimension: L 85.6 x W 54 x T 0.88 mm
- Material: PETF + PC
- IP Rating: IP68
- Operating Temperature: -40°C to 110°C
- Storage Temperature: -30°C to 90°C
- RFID Chip: NXP MIFARE DESFire EV3

EcoMe Recycled PVC Card

LF HF UHF ECO

Recycled PVC Card is an eco-friendly solution using recycled PVC (UL2809 compliant) to give plastics a second life. Built for achieving your sustainable strategy to security systems, this card is also certified to ISO10373 without compromising its durability and robustness.

Specification:

- Dimension: L 85.6 x W 54 x T 0.8 mm
- Material: Recycled PVC
- Operating Temperature: -25°C to 50°C
- Storage Temperature: -25°C to 50°C

Material Certification
Made of 100% recycled plastics and complied with UL2809

Quality Certification
Complied with ISO 10373

ISO Card

LF HF UHF

ISO Card is the most commonly used and popular form factor in RFID transponders. SAG can build ISO Card with a variety of materials and bring out elegant printing surface finishing.

Specification:

- Dimension: L 85.6 x W 54 x T 0.8 mm
- Material: PVC / NPETG / PETF Composite
- Operating Temperature:
  PVC: -25°C to 50°C
  PVC+NPETG: -25°C to 50°C
  PVC+PETF: -30°C to 70°C
- IP Rating: IP68
- Storage Temperature:
  PVC: -25°C to 50°C
  PVC+NPETG: -25°C to 60°C
  PVC+PETF: -40°C to 100°C

SAG PETF Composite card can be printed on direct-to-card or thermal retransfer card printer.We have excellent printing surface finishing on these top models.

- Brand (Model #): Fargo (HDP5000) / Zebra (ZXP8) / Datacard (CD8000) / Matica (xID8300)

UHF ISO Card UHF Hands-free Solution

SAG overcomes the seemingly inevitable read range drop when UHF Card is placed near human body and affected by the interference. This card features both the uniqe SAG antenna design and NXP UCODE 8 technology, making hands-free access control a real thing.

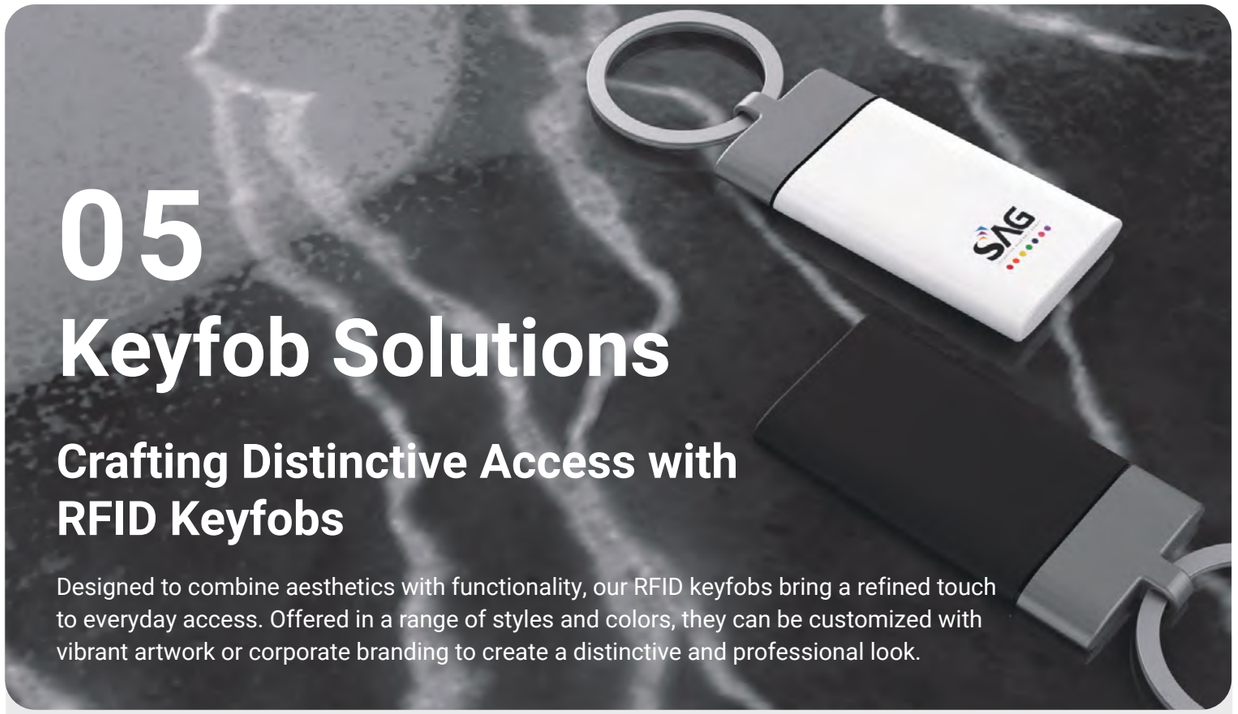
Clamshell Card

LF HF

Clamshell Card is a cost-effective solution. Also, the robust housing makes no easy damage by bending or torsion.

Specification:

- Dimension: L 85.6 x W 54 x T 1.9 mm
- Material: ABS Housing+ PVC Sticker
- IP Rating: IP66
- Operating Temperature: -10°C to 50°C
- Storage Temperature: -10°C to 50°C



05
Keyfob Solutions

Crafting Distinctive Access with RFID Keyfobs

Designed to combine aesthetics with functionality, our RFID keyfobs bring a refined touch to everyday access. Offered in a range of styles and colors, they can be customized with vibrant artwork or corporate branding to create a distinctive and professional look.

Utopia

HF

Utopia blends craftsmanship and elegance into an all-matte, affordable luxury design with advanced RFID security. With IP68 durability and customizable branding, it elevates both style and protection.

Specification:
- ▶ Dimension: L 56 x W 26 x T 3.2 mm
- ▶ IP Rating: IP68
- ▶ Operating Temperature: -25°C to 85°C
- ▶ Storage Temperature: -25°C to 85°C

Color Options: White / Grey / Black

Ultra Keyfob

Ultra Keyfob is crowned with a metal part which gives a great volume in your hand and conveys a sense of refinement from its matte texture. This keyfob is designed to perfectly fit your taste to a high end life while making access control just a simple tap.

Ultra Eternity

LF HF

Specification:
- ▶ Dimension: L 56 x W 26 x T 3.2 mm
- ▶ IP Rating: IP68

Surface Texture:
- ▶ Leather / Marble / Alligator / Woven Leather

Ultra Classic

LF HF

Specification:
- ▶ Dimension: L 56 x W 26 x T 3.2 mm
- ▶ IP Rating: IP68
- ▶ Operating Temperature: -25°C to 85°C
- ▶ Storage Temperature: -25°C to 85°C

Color Options:
- ▶ Red / Orange/ Blue / Navy Blue
  Purple / White / Grey / Black

Overmolded Pear Keyfob(OPK)

LF HF

Overmolded Pear Keyfob is 100% waterproof with an array of colors for selection, and sharp laser marking effect, making it more than just a keyfob.

Specification:
- ▶ Dimension: L 45 x W 30 x T 2.2 mm
  L 45 x W 30 x T 2.6 mm (Dual chip type)
- ▶ IP Rating: IP68
- ▶ Operating Temperature: -25°C to 85°C
- ▶ Storage Temperature: -25°C to 85°C

Color Options:
- ▶ Red / Orange / Yellow / Green / Blue / Navy Blue / Purple / White / Grey / Black

EcoMe Ocean-recycled Plastic Keyfob

HF ECO

The iconic Overmolded Pear Keyfob comes with a new version, made of post-consumer recycled material (PCR) for a greener future. Built for archieving your sustainable strategy to access control systems, the eco-friendly keyfob not only reduces environmental impact but also maintains high performance and durability.

Specification:
- ▶ Dimension: L 45 x W 30 x T 2.2 mm
- ▶ IP Rating: IP68
- ▶ Operating Temperature: -25°C to 85°C
- ▶ Storage Temperature: -25°C to 85°C

Color Options:
- ▶ Black

Material Certification
Made of 100% recycled post-consumer plastics and complied with GRS and OBP Certification

EcoMe OPK Slim

HF ECO

The OPK Slim features an ultra-slim 1.8 mm form factor, engineered for high-performance access control. Available in 100% rPCR, it reduces carbon emissions while maintaining the industrial-grade reliability.

Specification:
- ▶ Dimension: L 45 x W 30 x T 1.8 mm
- ▶ IP Rating: IP68
- ▶ Operating Temperature: -25°C to 85°C
- ▶ Storage Temperature: -25°C to 85°C

Color Options:
- ▶ Black / White

Material Certification
Made of 100% recycled post-consumer plastics and complied with GRS and OBP Certification

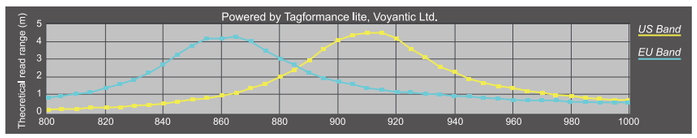
OPK UHF

UHF

UHF Overmolded Pear Keyfob helps the user get access without having to reach out a keyfob to tap and go, realizing the hands-free solution and offers great efficiency.

RFID Chip: ▶ Impinj M781

Color Options: ▶ Red / Yellow / Green / White



Palette Keyfob

LF HF

Palette Keyfob features unique plays of color in inspiring contrast. The two-tone keyfob is crafted with a matte texture finish.

Specification:
- ▶ Dimension: L 45 x W 30 x T 3.5 mm
- ▶ IP Rating: IP68
- ▶ Operating Temperature: -10°C to 50°C
- ▶ Storage Temperature: -10°C to 50°C

Color Options:
- ▶ Red / Orange / Yellow / Pink / Green / Blue / Purple / Grey / Black / White

Customization Option

- ▶ UV Inkjet Printing:
  Print colorful design or even texture to get a more vibrant finish.

- ▶ Laser Engraving:
  Mark clear UID or numbers in good contrast or decorate with graphic design to improve visual appeal.

Tear Keyfob

LF HF

Specification:
- Dimension: L 40 x W 31 x T 5 mm
- IP Rating: IP66
- Operating Temperature: -25°C to 55°C
- Storage Temperature: -25°C to 75°C

Color Options:
- Red / Pink / Yellow / Green / Blue / Purple / White / Black / Orange / Grey

Tumbler Keyfob

LF HF Dual

Specification:
- Dimension: L 36.2 x W 30 x T 7.5mm
- IP Rating: IP66
- Operating Temperature: -25°C to 55°C
- Storage Temperature: -25°C to 75°C

Color Options:
- Red / Green / Yellow / Dark Blue / Grey / White / Black / Orange / Blue

Translucent Keyfob

LF HF UHF

Specification:
- Dimension: L 55.5 x W 31 x T 8 mm
- IP Rating: IP66
- Operating Temperature: -25°C to 55°C
- Storage Temperature: -25°C to 75°C

Color Options:
- Green / Blue / Red / Black

Water Drop Keyfob

LF HF Dual

Specification:
- Dimension: L 50.5 x W 31.5 x T 9.5 mm
- IP Rating: IP66
- Operating Temperature: -25°C to 55°C
- Storage Temperature: -25°C to 75°C

Color Options:
- Grey

Pear Keyfob

LF HF Dual

Specification:
- Dimension : L 45 x W 30 x T 1.6 mm
- IP Rating: IP67
- Operating Temperature: -25°C to 55°C
- Storage Temperature: -25°C to 120°C

Color Options:
- Black

Thumb Keyfob

LF HF

Specification:
- Dimension: L 49.6 x W 33 x T 7.05 mm
- IP Rating: IP66
- Operating Temperature: -25°C to 55°C
- Storage Temperature: -25°C to 75°C

Color Options:
- Blue / Grey

Arch Keyfob

LF HF UHF

Specification:
- Dimension: L 54 x W 28 x T 1.8 mm
- IP Rating: IP68
- PVC blank white
- Operating Temperature: -10°C to 50°C
- Storage Temperature: -10°C to 50°C

Color Options:

Epoxy Keyfob

LF HF Dual

Specification:
- Dimension: L 50 x W 30 x T 6mm (Rectangle Epoxy Keyfob)
  L 65 x W 25 x T 6mm (Slender Epoxy Keyfob)
  L 53 x W 26 x T 6mm (Oval Epoxy Keyfob)
  L 45 x W 30 x T 6mm (Pear Epoxy Keyfob)
  L 25 x W 19 x T 6mm (Mini Epoxy Keyfob)
- Operating Temperature: -10°C to 50°C
- Storage Temperature: -10°C to 50°C
- IP Rating: IP68

Color Options:
- PVC blank white

RFID IC LIST

Brand	IC Name	Frequency	UID / Memory	Remark
UHF NXP	UCODE X	860~960MHz	TID 96 Bit ; EPC 96~208 bit ; Configurable 0~32bit	ISO 18000-63 / EPC Gen2 V2
	UCODE 9xm	860~960MHz	TID 96 Bit ; EPC up to 496 Bit ; User up to 752 Bit	ISO 18000-63 / EPC Gen2 V2
	UCODE 9	860~960MHz	TID 96 Bit ; EPC up to 96 Bit	ISO 18000-63 / EPC Gen2 V2
	UCODE DNA	860~960MHz	TID 96 Bit ; EPC up to 448 Bit ; User 3027 Bit	ISO 18000-63 / EPC Gen2 V2
	UCODE 8	860~960MHz	TID 96 Bit ; EPC up to 128 Bit	ISO 18000-63 / EPC Gen2 V2
IMPINJ	M830	860~960MHz	TID 96 Bit ; EPC 128 Bit	ISO 18000-63 / EPC Gen2 V2
	M781	860~960MHz	TID 96 Bit ; EPC 496 Bit ; 128 Bit	ISO 18000-63 / EPC Gen2 V2
	M750	860~960MHz	TID 96 Bit ; EPC 96-128 Bit ; 0-32 Bit	ISO 18000-63 / EPC Gen2 V2
	Monza 4QT	860~960MHz	TID 96 Bit ; EPC 128 Bit ; User 512 Bit	ISO 18000-63 / EPC Gen2 V2
µem	EM4325	860~960MHz	TID 48 Bit ; EPC 4096 Bit	ISO 18000-63 / EPC Gen2 V2

Brand	IC Name	Frequency	UID / Memory	Remark
NXP	NTAG X DNA	13.56MHz	UID 7 Byte ; Up to 16kB	ISO/IEC 14443A
	NTAG 223 / 224 DNA StatusDetect	13.56MHz	UID 7 Byte ; 144 / 208 Byte	ISO/IEC 14443A
	ICODE DNA	13.56MHz	UID 8 Byte ; 2048 bits	ISO/IEC 15693
	NTAG 213 / 215 / 216	13.56MHz	UID 7 Byte ; 144 / 504 / 888 Byte	ISO/IEC 14443A
	NTAG 424 DNA / 424 DNA TT	13.56MHz	UID 7 Byte ; 416 Byte	ISO/IEC 14443A
	MIFARE DUOX	13.56MHz	UID 7 Byte ; 2 / 4 / 8 / 16 K Byte	ISO/IEC 14443A
	MIFARE Ultralight AES	13.56MHz	UID 7 Byte ; 144 Byte	ISO/IEC 14443A / AES encryption
	MIFARE Ultralight EV1	13.56MHz	UID 7 Byte ; 384 Bit	ISO/IEC 14443A
	MIFARE Ultralight C	13.56MHz	UID 7 Byte ; 1152 Bit	ISO/IEC 14443A
	MIFARE Plus EV2 2K/4K	13.56MHz	NUID 4 / UID 7 Byte ; 2K/4K Byte	ISO/IEC 14443A / AES encryption
	MIFARE Classic EV1 1K	13.56MHz	NUID 4 / UID 7 Byte ; 1K Byte	ISO/IEC 14443A
	MIFARE Classic EV1 4K	13.56MHz	NUID 4 / UID 7 Byte ; 4K Byte	ISO/IEC 14443A
	MIFARE DESFire EV1 / EV2 / EV3	13.56MHz	UID 7 Byte ; 2K / 4K / 8K Byte	ISO/IEC 14443A
	MIFARE DESFire light	13.56MHz	UID 7 Byte ; 640 Byte	ISO/IEC 14443A
	ICODE 3	13.56MHz	UID 8 Byte ; 2400 Bit	ISO/IEC 15693
	ICODE SLIX / SLIX2	13.56MHz	UID 8 Byte ; 896 / 2528 Bit	ISO/IEC 15693 & 18000-3
	ICODE SLIX-L / SLIX-S	13.56MHz	UID 8 Byte ; 256 / 1280 Bit	ISO/IEC 15693 & 18000-3
	HITAG 1/ HITAG 2	125 KHz	UID 4 Byte ; 2048 / 256 Bit	ISO/IEC 11784 & 11785
	HITAG S	125 KHz	UID 4 Byte ; 2048 / 2048 Bit	ISO/IEC 11784 & 11785 & 14223
ST	ST25TAE	13.56MHz	UID 7 Byte ; 2KBit	ISO/IEC 14443A
	ST25DV04K	13.56MHz	UID 8 Byte ; 4K Bit	ISO/IEC 15693
	ST25TV512/ 02K/ 512C/ 02KC	13.56MHz	UID 8 Byte ; 512/ 2K/ Bit	ISO/IEC 15693
	ST25TN01K	13.56MHz	UID 7 Byte ; up to 1.6Kbit EEPROM memory	ISO/IEC 14443A
	ST25TA512/ 02K	13.56MHz	UID 7 Byte ; 512/ 2K/ Bit	ISO/IEC 14443A
	ST25TA16K	13.56MHz	UID 7 Byte ; 16K/ 64K Bit	ISO/IEC 14443A
	ST25TB512/ 04K	13.56MHz	UID 7 Byte ; 512/ 4K Bit	ISO/IEC 14443B
µem	EM4305	125 KHz	UID 32 Bit ; User 512 Bit	ISO/IEC 11784/85 Compatible
	EM4450 / EM4550	125 KHz	UID 64 Bit ; User 1K Bit	ISO/IEC 11784/85 Compatible
	EM4102 / EM4200	125 ~ 134.2 KHz	UID 64 Bit ; Read only	ISO/IEC 11784/85 Compatible
	EM4332	13.56MHz	UID 7Byte ; 308 Byte EEPROM	ISO/IEC 14443A
	EM4427	13.56 MHz 860~960 MHz	[NFC interface] UID 64 Bit [UHF interface] TID 96 Bit EPC up to 480 Bit Shared Memory 2048 Bit	ISO/IEC 14443A ISO 18000-6C / EPC Gen2 V2
	EM4425	13.56 MHz 860~960 MHz	[NFC interface] UID 8 Byte [UHF interface] TID 96 Bit EPC up to 480 Bit Shared Memory 2048 Bit	ISO/IEC 14443A ISO 18000-6C / EPC Gen2 V2
	EM4423	13.56 MHz 860~960 MHz	[NFC interface] UID 7 Byte [UHF interface] TID 96 Bit EPC 96 Bit User 2080 Bit	ISO/IEC 14443A ISO 18000-6C / EPC Gen2 V2
MICROCHIP	ATA5577	125 KHz	Memory 363 Bit	ISO/IEC 11784/85 Compatible
FUJITSU	MB89R118 / 119 / 112	13.56MHz	UID 8Byte ; 2K / 256 / 8K Byte FRAM	ISO/IEC 15693
SONY Felica	RC-S966 (Felica Lite-S)	13.56MHz	UID 8Byte ; 432 Byte EEPROM	ISO/IEC 18092
	RC-SA00 / 01	13.56MHz	UID 8Byte ; 6K/4K Byte FRAM	ISO/IEC 15408
LEGIC	MIM256 / MIM1024	13.56MHz	UID 16 Byte ; 256/1024 Byte	ISO/IEC 14443A
	ATC 256MV / ATC 1024MV	13.56MHz	UID 8 Byte ; User 224 / 912 Byte	ISO/IEC 15693 & 14443A (MV010)
	ATC4096MP	13.56MHz	UID 7 Byte ; 4096 Byte	ISO/IEC 14443A
maxim integrated	MAX 66240	13.56MHz	UID 64 Bit ; 512 Byte	ISO/IEC 15693 & 18000-3
Texas Instruments	Tag-it HF-I Pro / Plus	13.56MHz	UID 8 Byte ; 256 / 2048 Bit	ISO/IEC 15693 & 18000-3
infineon	SLE 66R01P	13.56MHz	UID 7 Byte ; 128 Byte	ISO/IEC 14443A
	SRF55V10S	13.56MHz	UID 8 Byte ; User 992 Byte	ISO/IEC 15693
	SRF55V10P	13.56MHz	UID 8 Byte ; User 992 Byte	ISO/IEC 15693