



Century's RFID Business

May 2025



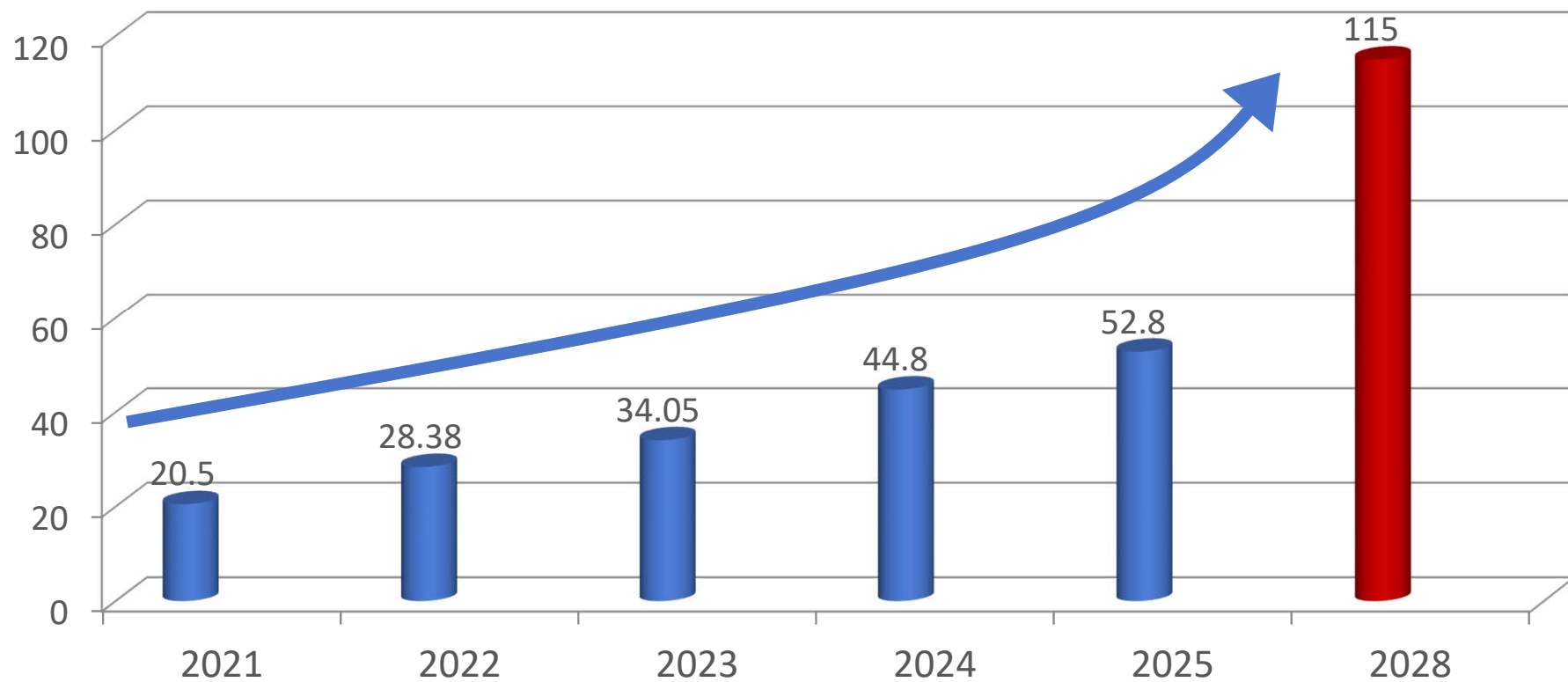


CONTENTS

- 01** RFID in General
- 02** Century's RFID Business
- 03** Yangzhou & Wenzhou Base
- 04** RFID Product Introduction
- 05** RFID Selection 101

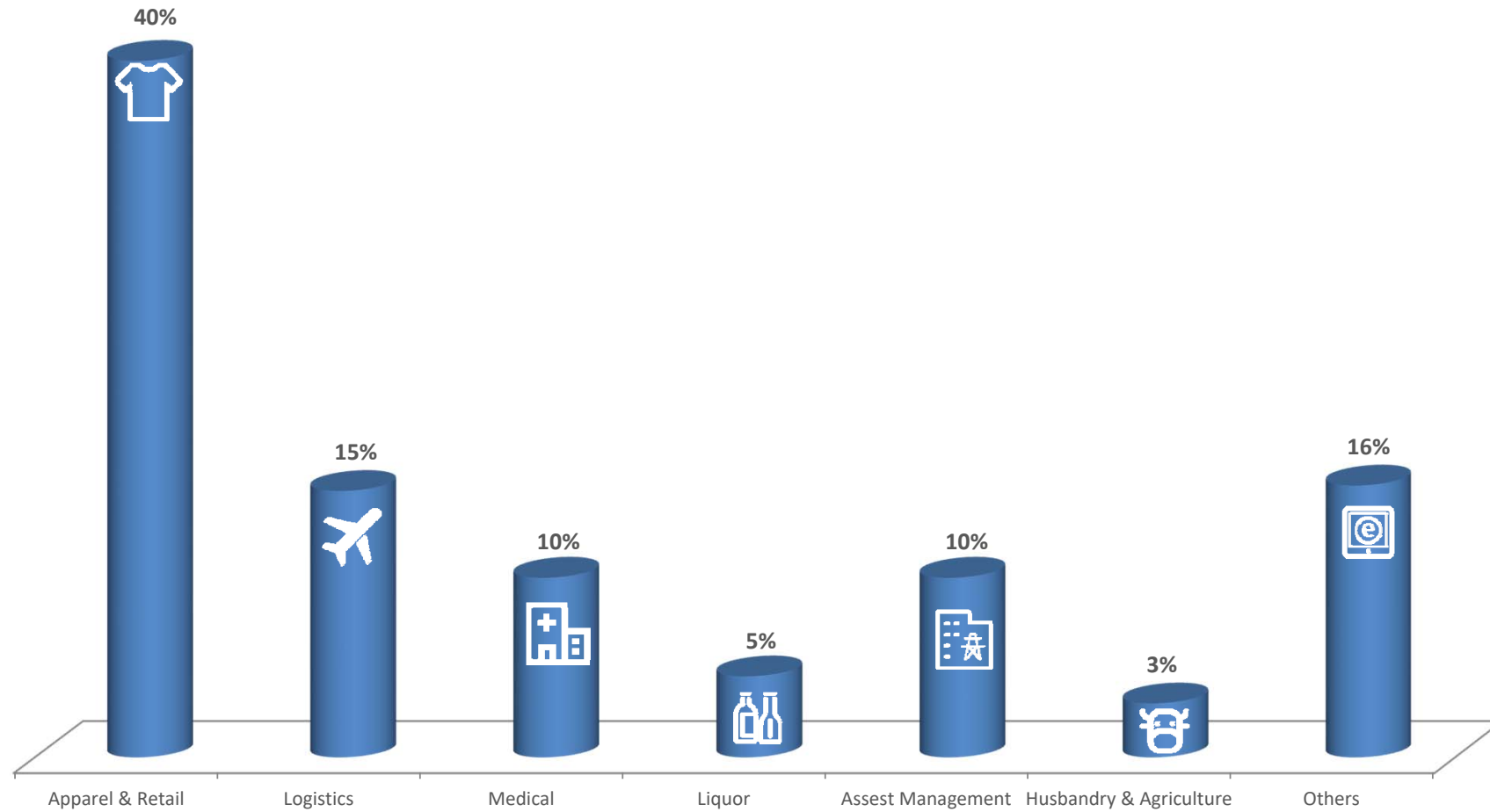
Global RFID Volume

Tag IC Volume (Billion)



Data Collected by RAIN 2021-2025

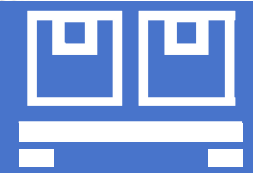
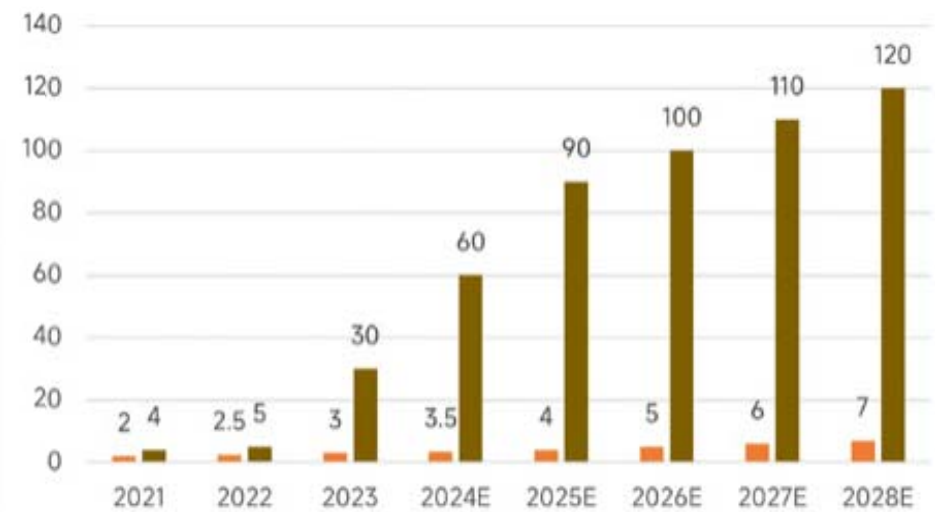
A Typical RFID Market Breakdown



Industry – Logistics

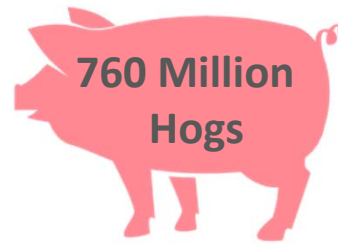


RFID Tags Volume in Logistics (100 M)

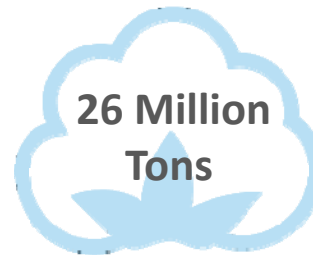


Industry – Animal Husbandry & Agriculture

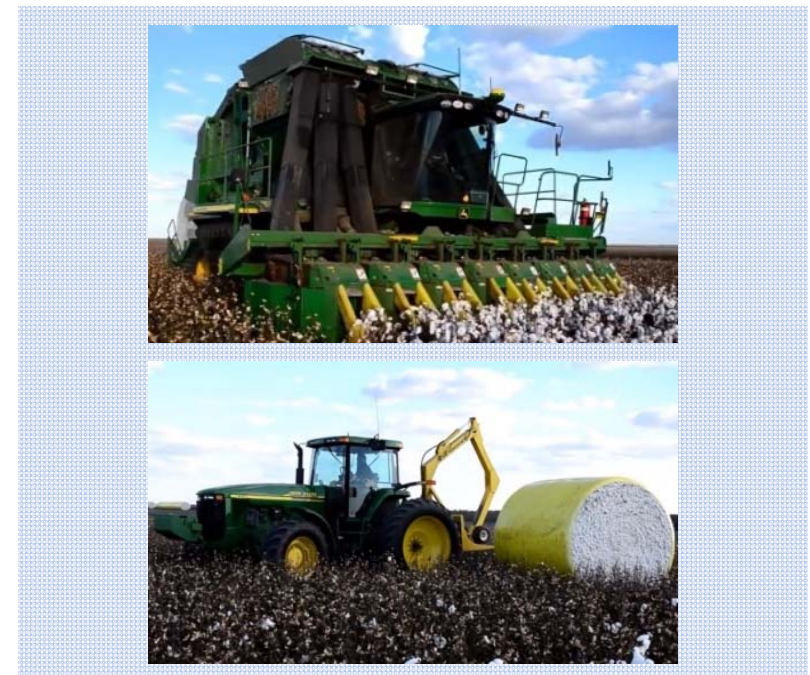
Animal Husbandry



Per Year



Agriculture



Industry – Medical

- ❑ Medicine
- ❑ Biological Reagent
- ❑ Blood Product
- ❑ Vaccine
- ❑ Gene Product



Medicine Management

Real-time Traceability
Stock Control



Patient Management

e-prescription
Identity Control



Medical Consumables

Unmanned Cabinet
Auto-counting

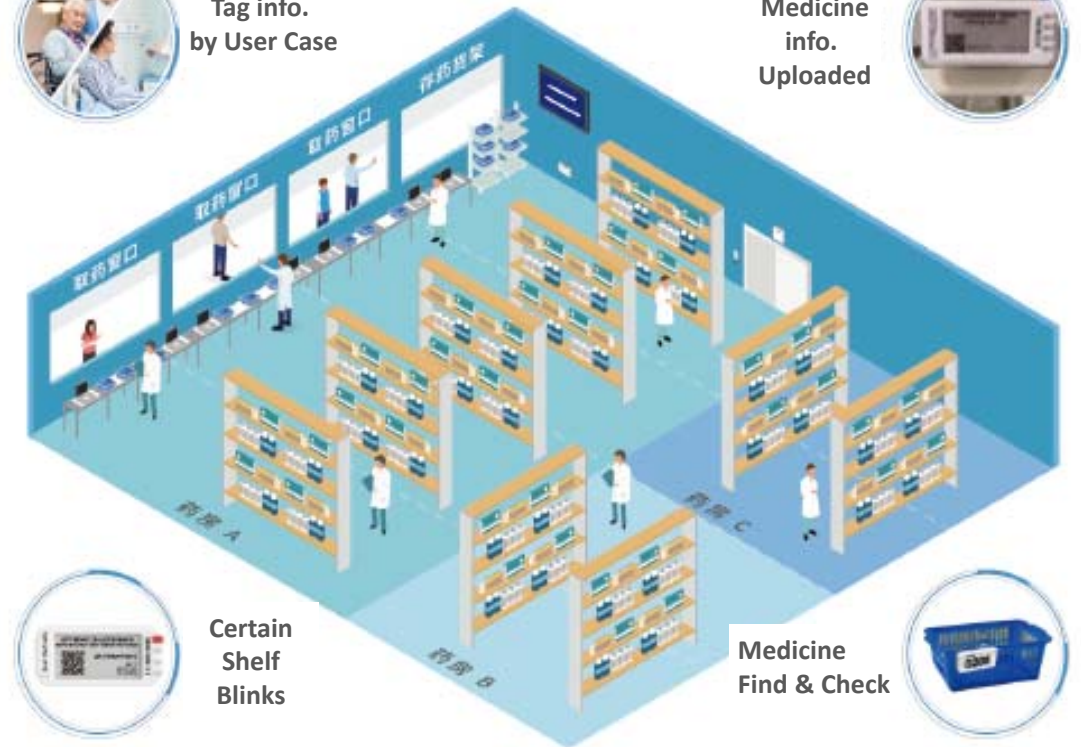
CUHK Medical Center Smart Pharmacy



Tag info.
by User Case



Medicine info.
Uploaded



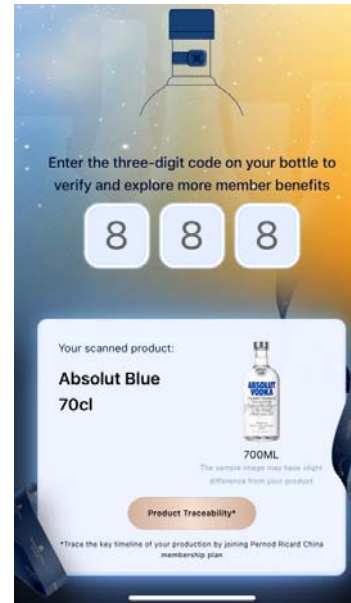
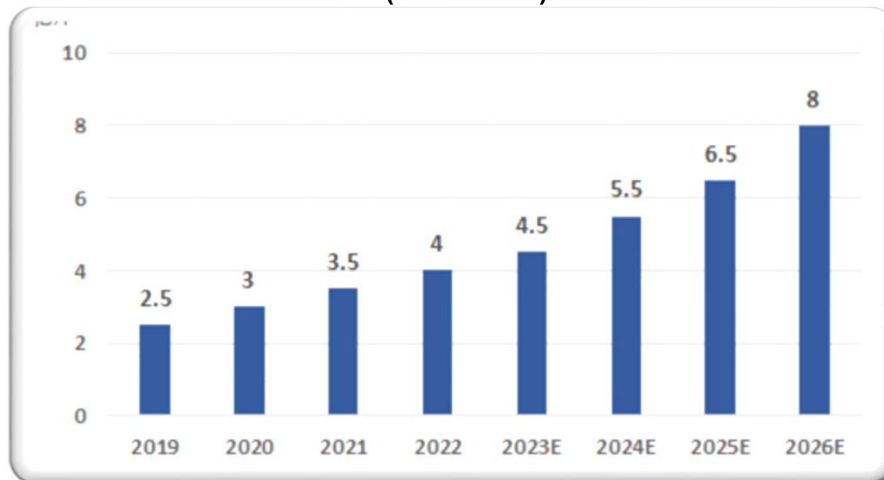
Certain
Shelf
Blinks



Medicine
Find & Check

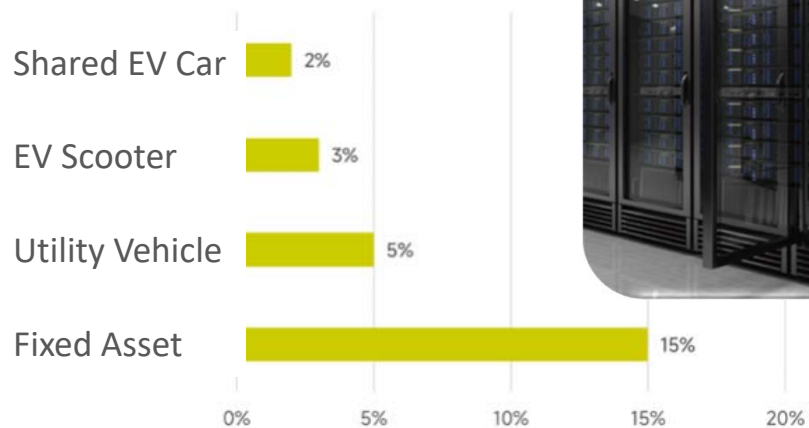
Industry – Anti-Counterfeiting

Market Volume of China's Anti-Counterfeiting Labels
(100 million)



Industry – Asset Management

RFID tags are widely adopted in asset management.



Tagged Rate of Asset Management in China

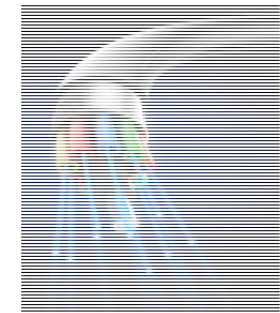
Electricity Meter

Smart meters are thoroughly applied in China to monitor energy consumption remotely.

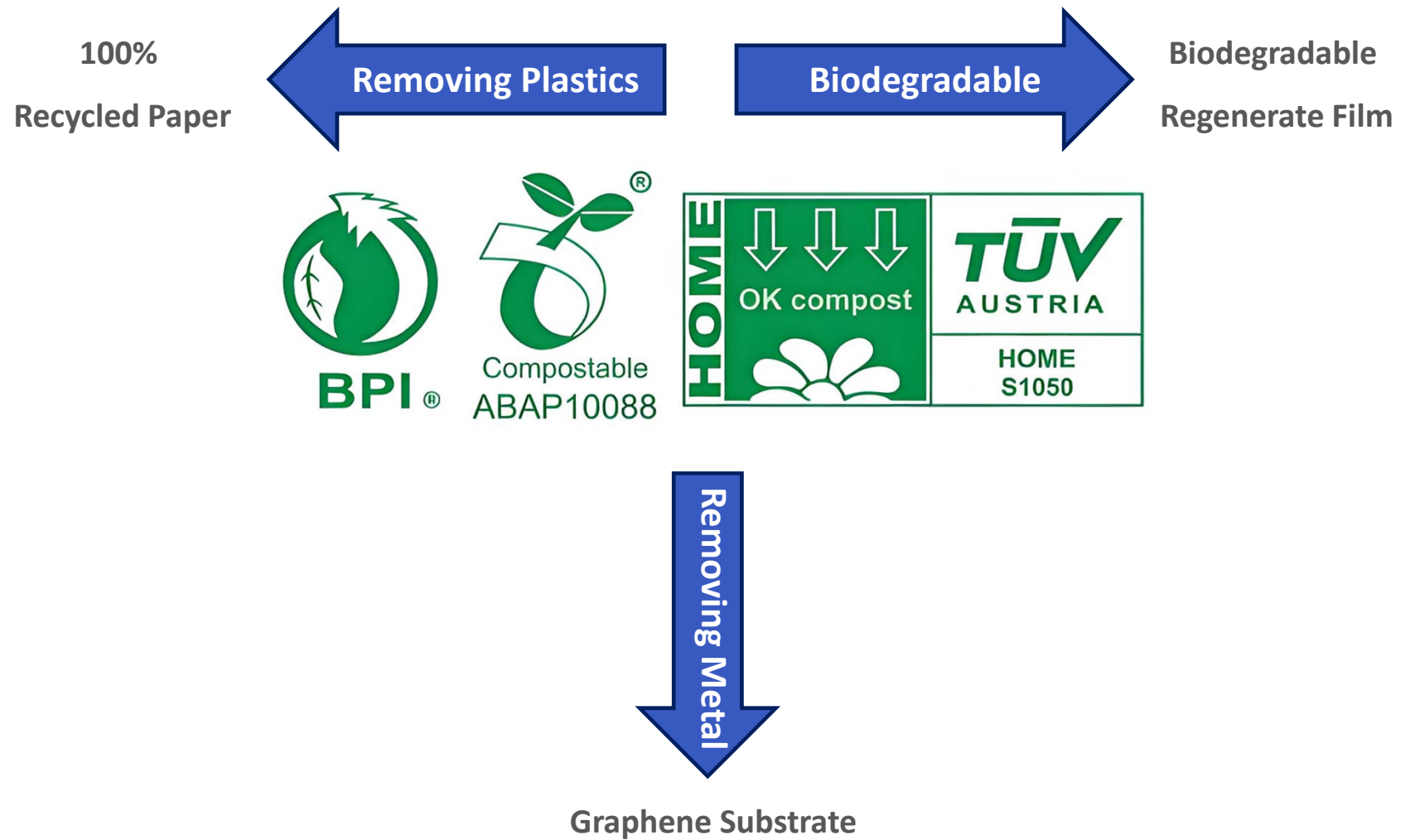


Telecom Cable

Cable management with RFID is one of the latest application promoted by China's top three telecom providers.



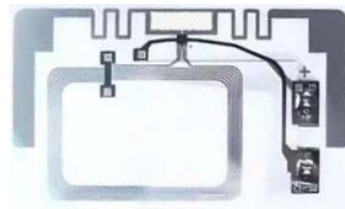
Evolution on the Way



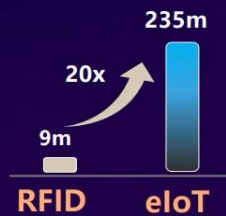
Evolution on the Way

RFID Plus

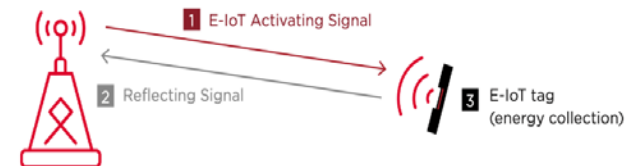
+ Bluetooth, Battery, etc.



E-IoT coverage: 20X



5G
ADVANCED



Century's RFID Core Abilities

Focused

- 3.0 Billion annual capacity.
- All-rounded RFID product portfolio.
- Always dedicated to manufacturing of RFID inlay and tag.

Reliable

- Desktop and handheld MES.
- In-line multi-point weak tag screening.
- In-line AOI installed for precise bonding & converting.

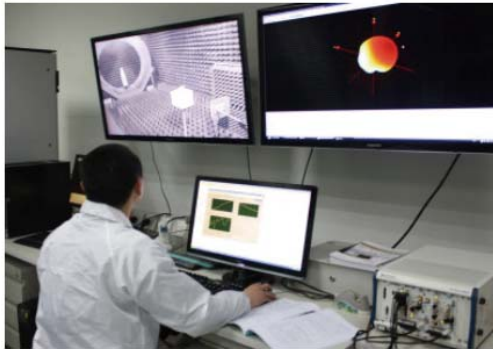
Agile

- Innovation on materials and process.
- Fast product customization .
- Experienced tech-support.

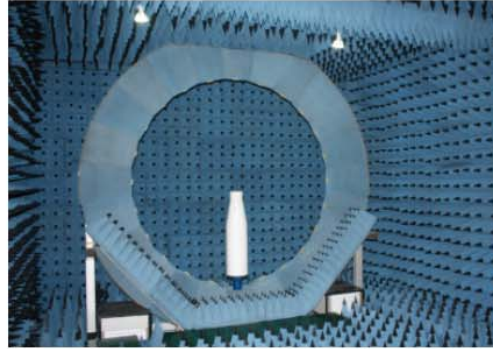
OEM & ODM Services

Process	Standard Timeframe	Rapid Timeframe
Customer Requirement & Feasibility Evaluation	1 Week	1 Week
Antenna Design & Prototype	3 Weeks	2 Weeks
Molds and Tools	3 Weeks for inlay 40-50 days for plastic housing	2 Weeks for inlay 30-40 days for plastic housing
Pilot Production	2 Weeks 1K-5K pcs	1 Week 1K-5K pcs
Mass Production	Per Customer Requirement	Per Customer Requirement

Best Quality RFID Products



Wide array of patented antenna designs to meet any performance requirements.



Design verification tested for performance, conformity and environmental adaptability.



Engineering verification tested for production feasibility and stability.



100% performance consistency testing before final delivery.



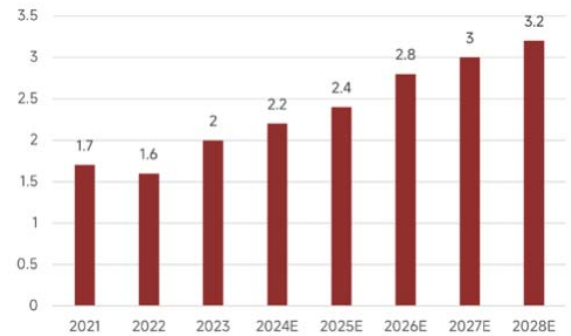
Strict quality control throughout the production process to deliver a reliable and consistent product.



Mass production verification tested for yield and productivity to ensure continuous capacity.

Century Application – Airline Luggage

65 Million
in
2024



Airline Luggage Tag Volume in China (100 M)

~30%
Share in
China



Century Application – Animal Husbandry

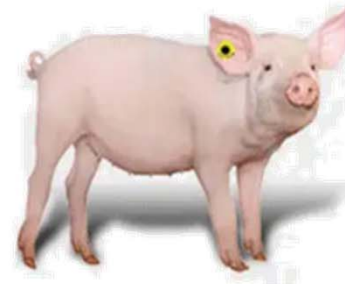
10 Million
in 2024

China
Top 3



Phi25_U9

- ❑ Designed for cattle
- ❑ Fitting the ear tag injection molding process



Century Application – Blood Product Management



Full Process Control

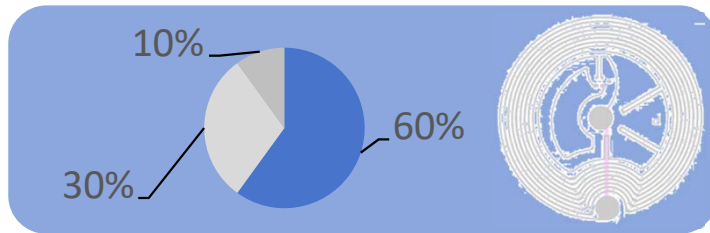
10 Million
in 2024

China
Top 1



- ❑ X & γ ray resistant
- ❑ Shower resistant
- ❑ Supports -80 °C storage

Century Application – Liquor



- ☐ Vertically attached
- ☐ NFC- enabled
- ☐ Tamper-proof



DIAGEO



Century Application – Mute Resources Management



03x06

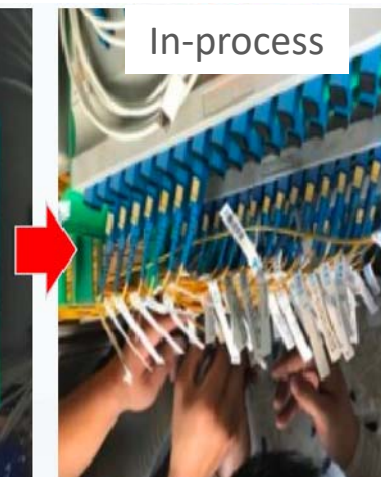
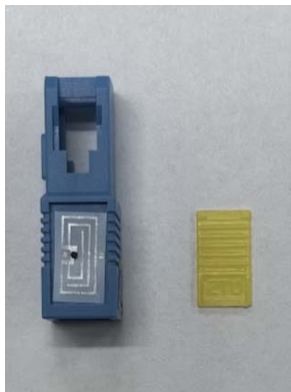


04x07



05x07

- Read range up to 5 cm.
- One sided or double sided design.
- Cost-effective solution for the verification, testing, and information collection of optical cable mute resources accumulated by operators over a long period of time.



Yangzhou Base: R&D and Production

- Established in Dec. 2012
- Capital investment US\$26M
- Turnover \$30 million in 2024
- Employees 200, Engineers 50+
- Delivered 12 billion RFID inlays



Yangzhou Base: Machines & Capacity

Muehlbauer Bonders	Monthly Capacity	Annual Capacity
TAL 15K x 12 FCM 10K x 2 DDA 40K x 1	125 Million	1.5 Billion

Converters	Monthly Capacity	Annual Capacity
Bielomatik T-165 x 1 Bielomatik TTL-165 x 1 Muehlbauer CL60K x 3	125 Million	1.5 Billion

Yangzhou Base: Workshop



Wenzhou Base: RFID Volume Production



Bonding

18 Machines

1.5 Billion



Converting

5 Machines

1.5 Billion



Encoding

3 Machines

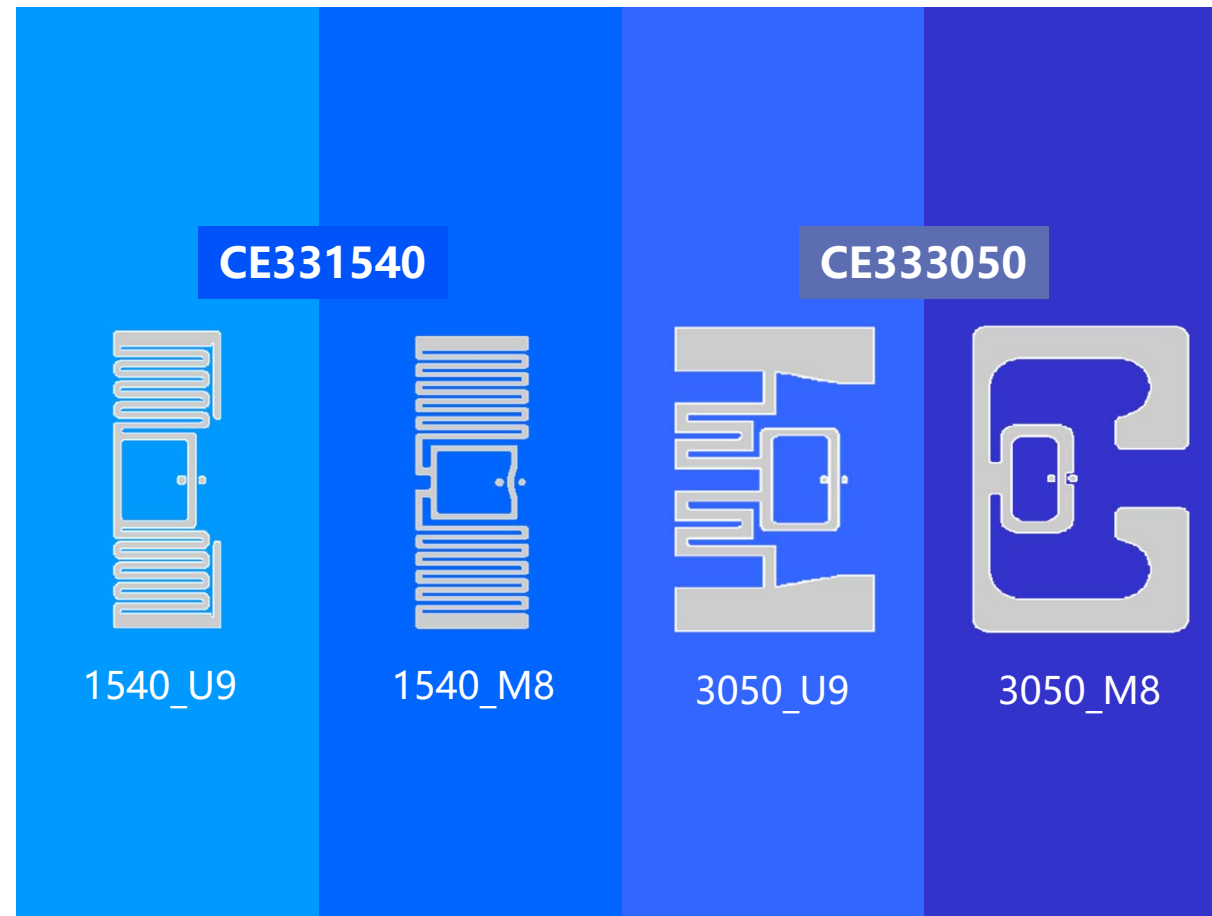
1.0 Billion



RFID Product – Standard Apparel



- Standard designs ideal for apparel
- Support anti-collision and dense reading
- Paper-based eco-friendly inlay also available



RFID Product – Special Apparel



CE341540

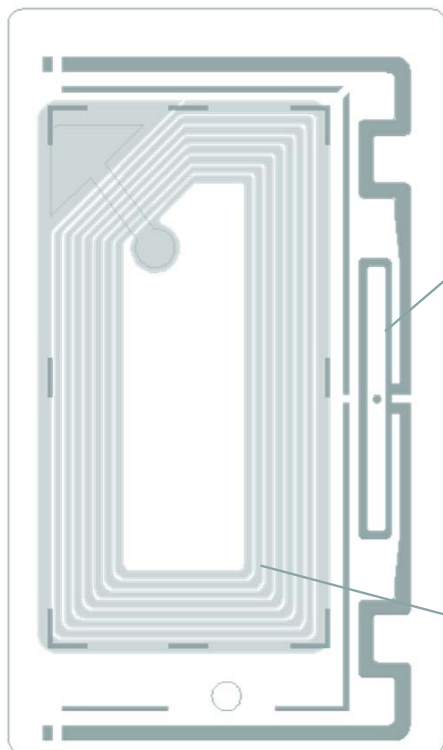
- ❑ Nylon, Satin, etc.
- ❑ Thin and soft
- ❑ Washing resistant

EMPORIO  ARMANI

ICICLE 

Application-Smart Apparel & Retail

CE353870



RFID

H&M

EAS



Alarm



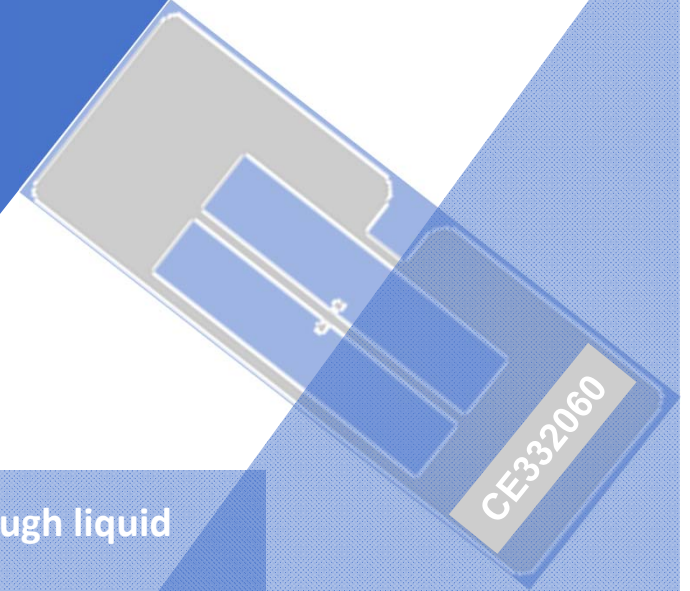
Check



RFID Product – Liquid



- ❑ Effective penetration through liquid packaging.
- ❑ Superior multi-tag readability.
- ❑ Consumer goods like spirit and liquor.
- ❑ Industrial products like blood bag.

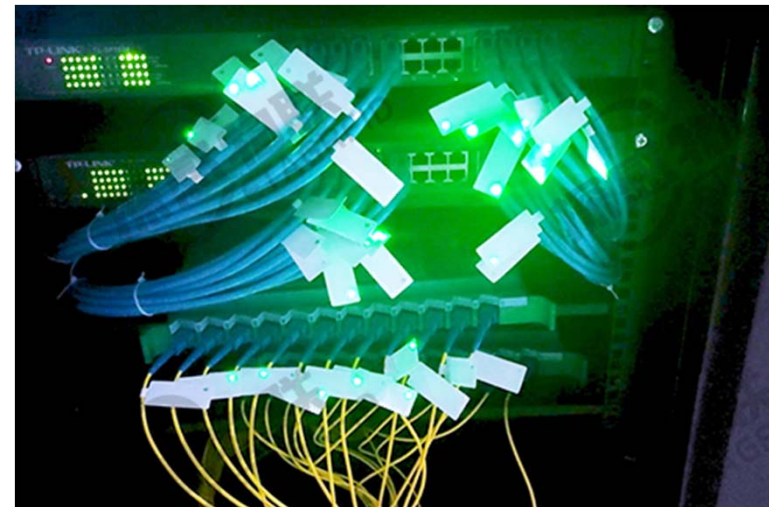


RFID Product – RFID+LED

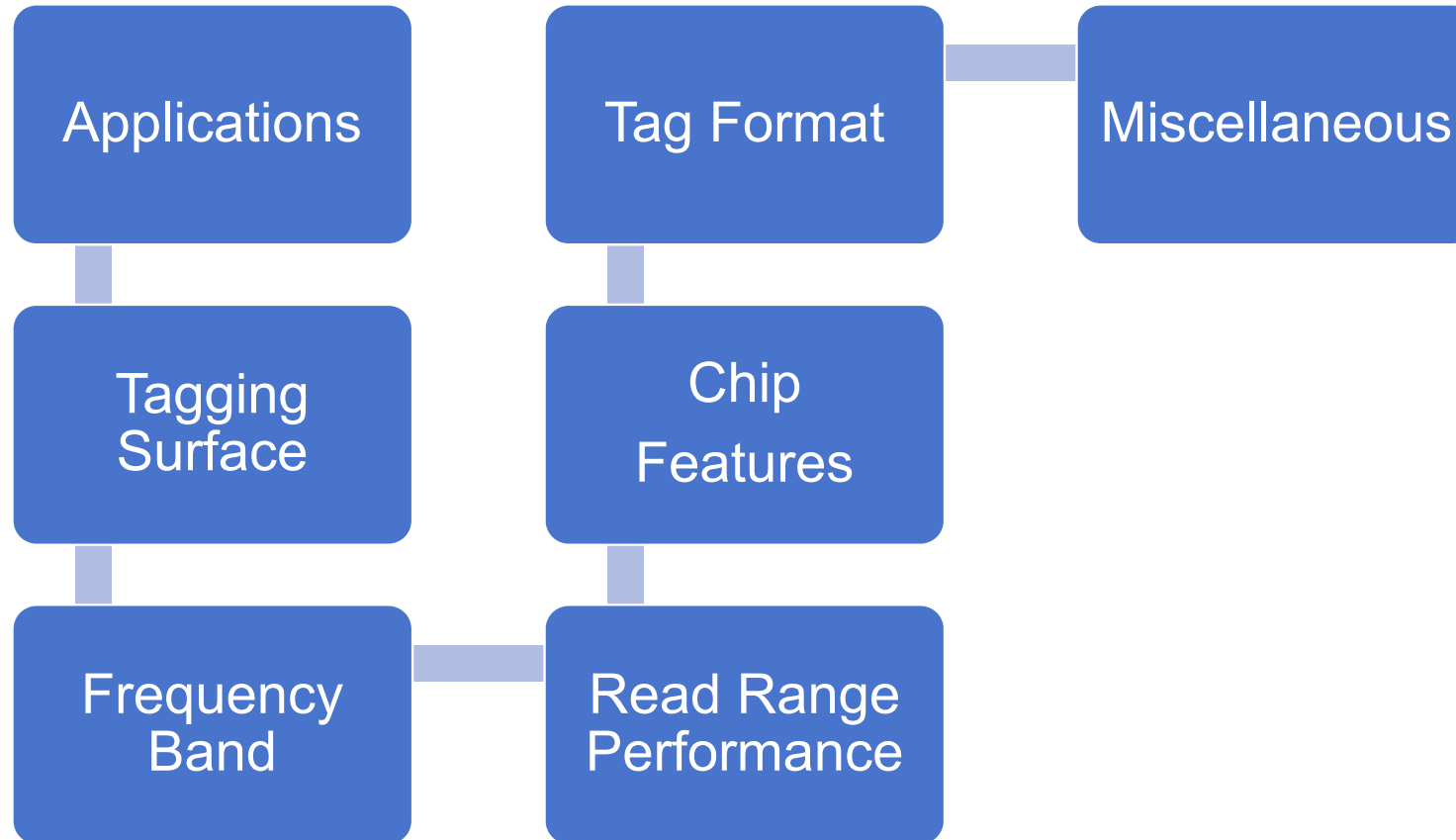


CE330395-LED

- ❑ Library
- ❑ Bank
- ❑ Washing resistant



RFID Selection 101



The background is a solid blue color with several abstract patterns. In the top corners, there are halftone dot patterns. In the bottom corners, there are wavy, line-like patterns. A large, semi-transparent circle is centered in the background, serving as a backdrop for the text.

THANK YOU

The Internet and IOT easy life

Hangzhou Century Co., Ltd

www.century-cn.com