rainus

Integrated Retail Solutions

INFINITE

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INFINITE

A fully integrated solution not only for retail but for all businesses

InforTab Infinite, fully integrated business management solution, is about transferring offline experience to online and vice-versa. Shopping journeys will be more comfortable and enriched with ESLs, asset tracking, smart digital signage, inventory management, and environment control, all managed from the same software.

PERFORMANCE

High efficiency compared to investment with dynamic pricing

PRODUCTIVITY

Reduction of work time through real-time information update

ROBUSTNESS

Rugged design and reduced weight to minimize the risk of breaking or failure

HOMOGENEITY

Minimize defective rate through automated production

STABILITY
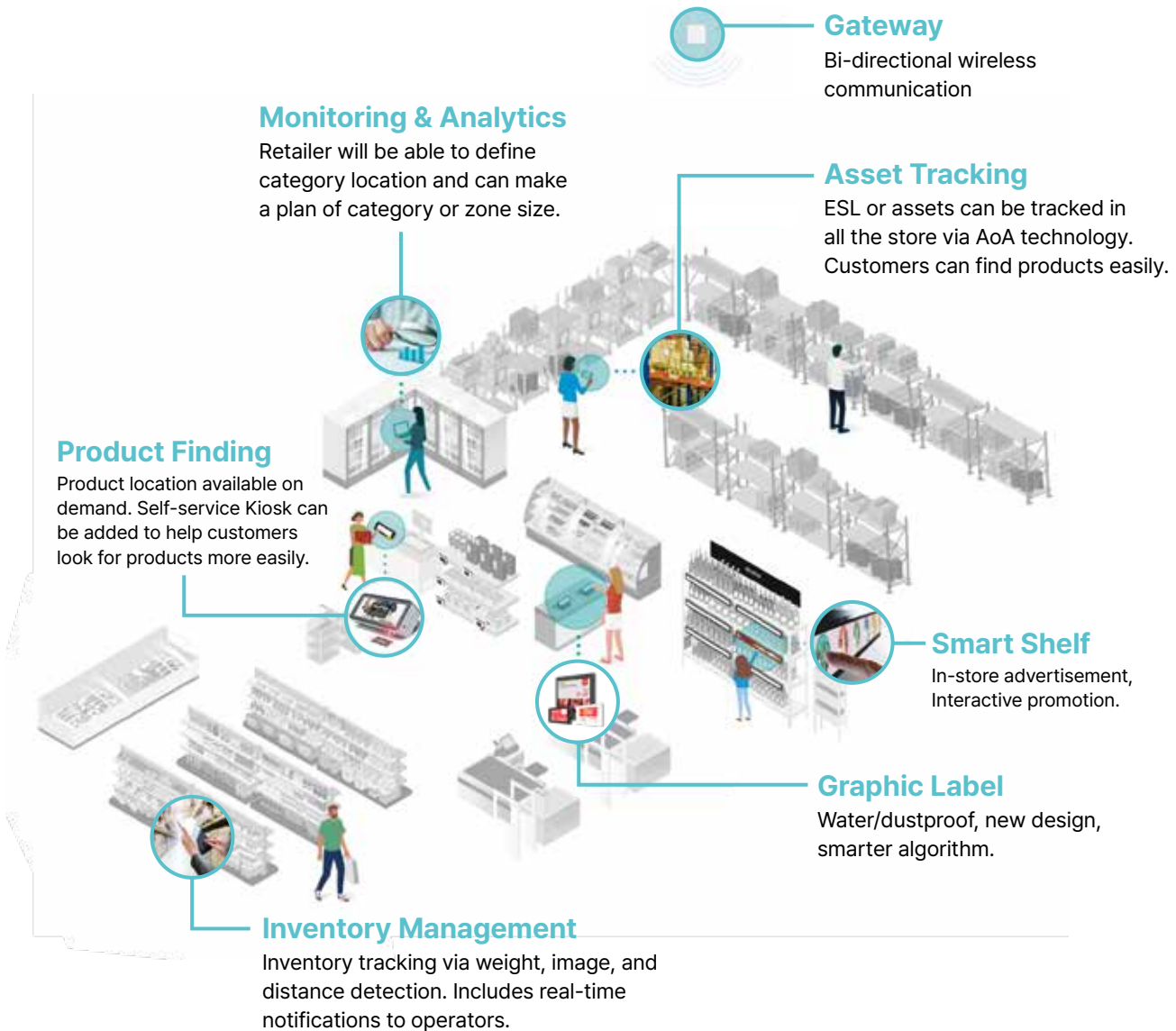
Stable operation through 24-hour system monitoring

SCALABILITY

Wide range of business application through RAINUS solutions such as price automation, O2O service, advertising service, asset tracking, etc.

INFINITE Solutions

Integrated Store Management Solution

InforTab Infinite is the most advanced full graphics label by its easy integration with other solutions. It has all the features of an advanced ESL line, including waterproof/dustproof capabilities and can be used with solutions such as real-time update, asset management, and inventory management.

COMPONENTS

Gateway
Bi-directional wireless communication

Monitoring & Analytics
Retailer will be able to define category location and can make a plan of category or zone size.

Asset Tracking
ESL or assets can be tracked in all the store via AoA technology. Customers can find products easily.

Product Finding
Product location available on demand. Self-service Kiosk can be added to help customers look for products more easily.

Smart Shelf
In-store advertisement, Interactive promotion.

Graphic Label
Water/dustproof, new design, smarter algorithm.

Inventory Management
Inventory tracking via weight, image, and distance detection. Includes real-time notifications to operators.

All managed through a single Interface

Expand your horizons along with Electronic Shelf Label

InforTab INFINITE

INFINITE

Next-gen ESL Integrated water / dustproof ESL

The Infinite ESLs are more powerful, bright, colorful, and sturdy, to be the most durable while giving an elegant and premium look & feel.

KEY FEATURES

Water/Dustproof
Upgraded durability with IP67 rating

Asset Tracking
Accurate, real-time asset location

Faster update speed
Price updates 20% quicker

Smart Algorithm
Optimized battery usage & wake-up time determined via AI

Solution modularity
Options can be added / removed

Slim & Elegant Design
Thin bezel and widerscreen for high visibility

COMPONENTS

3&4 color pro ESLs
Water/dustproof to be used in fresh corners, cosmetics and many other retail areas.

Fresh Corners	✓
Freezer, Fridge	✓
Cosmetics	✓

Fashion tags
RFID tag for easy, automatised inventory management.

Clothes	✓
Shoes	✓
Accessories	✓
Bags	✓

Blister tag
Easy clip accessory to attach to any surface. Slim enough to let products through.

DIY products	✓
Jewelry	✓
Stationery	✓

PREVIOUS INFORTAB LINE-UP

COMMON SPECIFICATION

3 COLOR | NFC | | 7 pages | 0-40°C | White | Black

AVALLABLE SIZES

• 1.5″, 2.1″, 2.6″, 2.9″, 3.1″, 3.7″, 4.2″, 5.8″, 7.5″, 13″

R154　R213　R213F　R266　R290　R290F　R310　R370　R420　R583　R750　R750　R13A

INFINITE InforSense
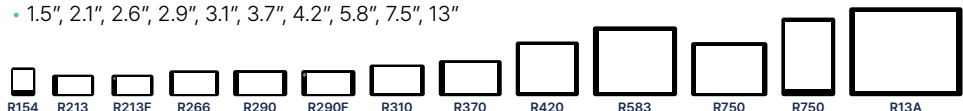
Shelf Inventory Management

Inventory management is often resource-heavy and subject of profit loss. Our solutions enable more accurate inventory management and real-time analysis of on-shelf availability and Out-of-Shelf.

INFORSENSE DISTANCE
Proximity Sensor

InforSense Distance measures distance between the sensor and the product to accurately determine how much stock remains on the shelf. Notifies store operators of low inventory.

INFORSENSE WEIGHT
Weight Sensor

InforSense Weight detects the change in weight of products on the shelf and notifies managers of the stock quantity. Sends notifications to operators directly.

INFORSENSE VISION
Image Recognition

InforSense Vision periodically detects the image of products on the shelf and notifies the stock status to managers.


Indoor Environment Monitoring

InforSense Environmental Sensor allow for real-time, simple and accurate air quality, temperature and humidity monitoring to ensure any anomaly can be detected and safety issues prevented at any time.

INFORSENSE AIR
Air Quality (TVOC) Sensor

InforSense Air measures air quality to prevent fire and keep a clean shopping environment for customers.
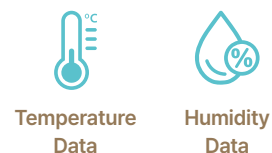
TVOC DATA

IAQ DATA

ECO2 DATA
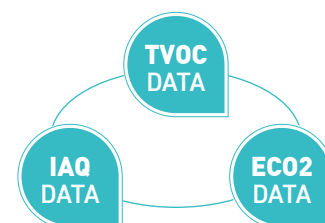
INFORSENSE TEMP
Temp/Humidity Sensor

InforSense Temp tracks temperature and humidity in the store. The manager can thus monitor changes in temperature and humidity near products, always ensuring their freshness.
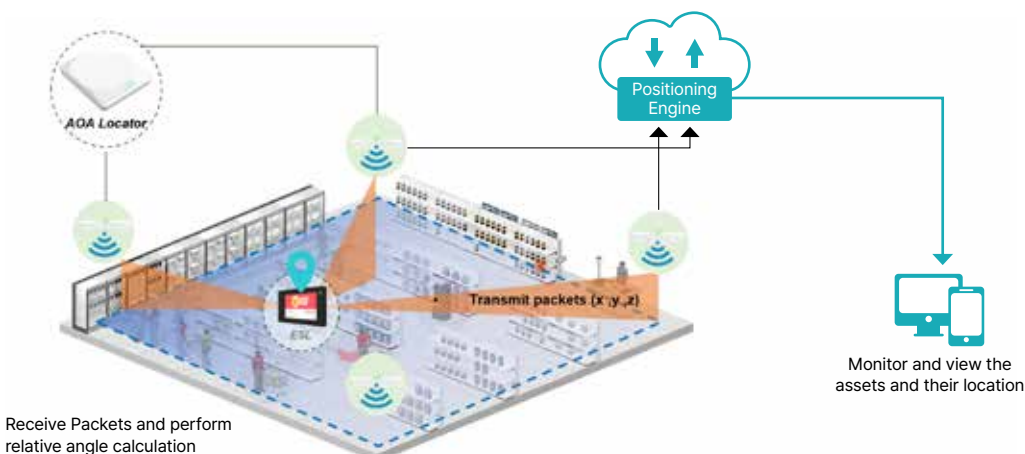
Temperature Data

Humidity Data

Expand your horizons along with Electronic Shelf Label

INFINITE Tracking

Angle of Arrival Asset Tracking and Movement Tracking System

Through data transmission between the AOA Locator and the AOA labels, this solution tracks the movement path and location of an asset in real-time within 10 cm error range. In the case of a retail store, by attaching the AOA labels on shopping carts or baskets, this solution monitors and analyzes the path of customers.

AOA LOCATOR

The positioning engine converts all location information into data through a technology based on the Angle of Arrival.

AOA Locator

Positioning Engine

Transmit packets (x ,y ,z)

Monitor and view the assets and their location

Receive Packets and perform relative angle calculation

Asset Tracking

The asset tracking system tracks the location of assets in real-time in places such as warehouses. It allows real-time identification of pallet check-in/out, equipment movement, and current location of assets in the warehouse.

Monitoring &Analytics

A solution that monitors and analyzes customer movement paths to help strategically utilize space by placing specific products in frequently visited locations.

USE CASE

Pick-Up service	Shopper Guidance
Result	

1. Fast and accurate order product pickup
2. Reduced workload
3. Online sales growth

Analysis Shopper Behavior
Result

1. Increase customer convenience
2. Increase advertising effectiveness
3. Sales growth
4. Improving merchandising layout, category.

Dumb Bin (Pallets)	In-store storage
Result	

1. Fast and accurate order product pickup
2. Reduced workload
3. Online sales growth

SMART ADVERTISING & PRICE MANAGEMENT

INFINITE

Retail Solution Digital Price & Signage Solution for Operational Efficiency and Workload Reduction

InforTab Plus's retail line-up helps consumers and retailers communicate through electronic shelf labels and digital signage. This enriches the consumer experience and provides managers with an efficient and convenient operating experience.

KEY FEATURES

- Price Automation
- Digital Advertising
- Omnichannel Synchronization
- Shopper Connectivity
- In-Store Digital Service

Smart Shelf

Price Label

Interaction

Split screen

Convert POP to price label

Synchronization

AVAILABLE SIZE

23"

29"

35"

47"

Duo 23" (47")

Expand your horizons along with Electronic Shelf Label

SMART FASHION STORE

Fashion Solution Fashion Electronic Shelf Labels for Operational Efficiency and Workload Reduction

InforTab Fashion line-up precisely meets the needs of the fashion industry. By using fashion tags as a retail electronic price tags, it can contribute to efficiency in fashion store operation and increase in sales.

MAIN FEATURES

- Price Automation
- Digital Advertising
- Omnichannel Synchronization
- Shopper Connectivity
- In-Store Digital Service

The Fashion Tags combine all traditional labels usually found on clothes into a single one while remaining lightweight and slim, and reducing resource cost and time loss due to price label printing, recycling, etc.

The R13A is a 13″ screen that runs on battery and allow to show mainly sales information and important product information on shelves. A4 format for easy adaptation.

The R11D is a dual-screen label that also runs on battery and allows users to display information at the front and at the back to ensure the best visibility in stores.

The lightweight and slim blister tags digitally transform all the traditional paper labels you see in the accessory section of DIY stores, reducing resource costs and lost time.

INFORTAB

ESL The most popular and versatile Electronic Shelf Label for Operational Efficiency and Workload Reduction

InforTab is an advanced solution supporting full graphics in three to seven colors. It can include specific information such as a price, barcode, graphics, promotion and currency details. InforTab can be easily designed and configured via the RAINUS software.

COMMON SPECIFICATION

3 COLOR	NFC		7 pages		White	Black

AVAILABLE SIZES

- 1.5″, 2.1″, 2.6″, 2.9″, 3.1″, 3.7″, 4.2″, 5.8″, 7.5″, 13″

R154
| Dimensions 39.8 × 47.3 × 13.6 mm
| Resolution 140 dpi

R213
| Dimensions 69.2 × 35.4 × 13.1 mm
| Resolution 130 dpi

R213F
| Dimensions 69.2 × 35.4 × 13.1 mm
| Resolution 130 dp
| Operation Temps -25 ~ 10℃

R266
| Dimensions 82.0 × 42.5 × 12.9 mm
| Resolution 125 dpi

R290
| Dimensions 89.0 × 42.9 × 13.1 mm
| Resolution 112 dpi

R290F
| Dimensions 89.0 × 42.9 × 13.1 mm
| Resolution 112 dpi
| Operation Temps -25 ~ 10℃

R310
| Dimensions 90.8 × 52.0 × 12.9 mm
| Resolution 110 dpi
| LED Not Available

R370
| Dimensions 103.4 × 59.2 × 13.3 mm
| Resolution 130 dpi

R420
| Dimensions 103.8 × 89.8 × 14.7 mm
| Resolution 120 dpi

R583
Prior-Type
| Dimensions 138.2 × 114.6 × 17.5 mm
| Resolution 120 dpi
| LED Not Available

New Type : Symmetric
| Dimensions 138.2 × 114.6 × 17.5 mm
| Resolution 138 dpi
| LED Available

R750
Prior-Type
| Dimensions 187.0 × 132.5 × 17.5 mm
| Resolution 100 dpi
| LED Not Available

New Type: High Resolution, Symmetric
| Dimensions 125.0 × 182.6 × 14.25 mm
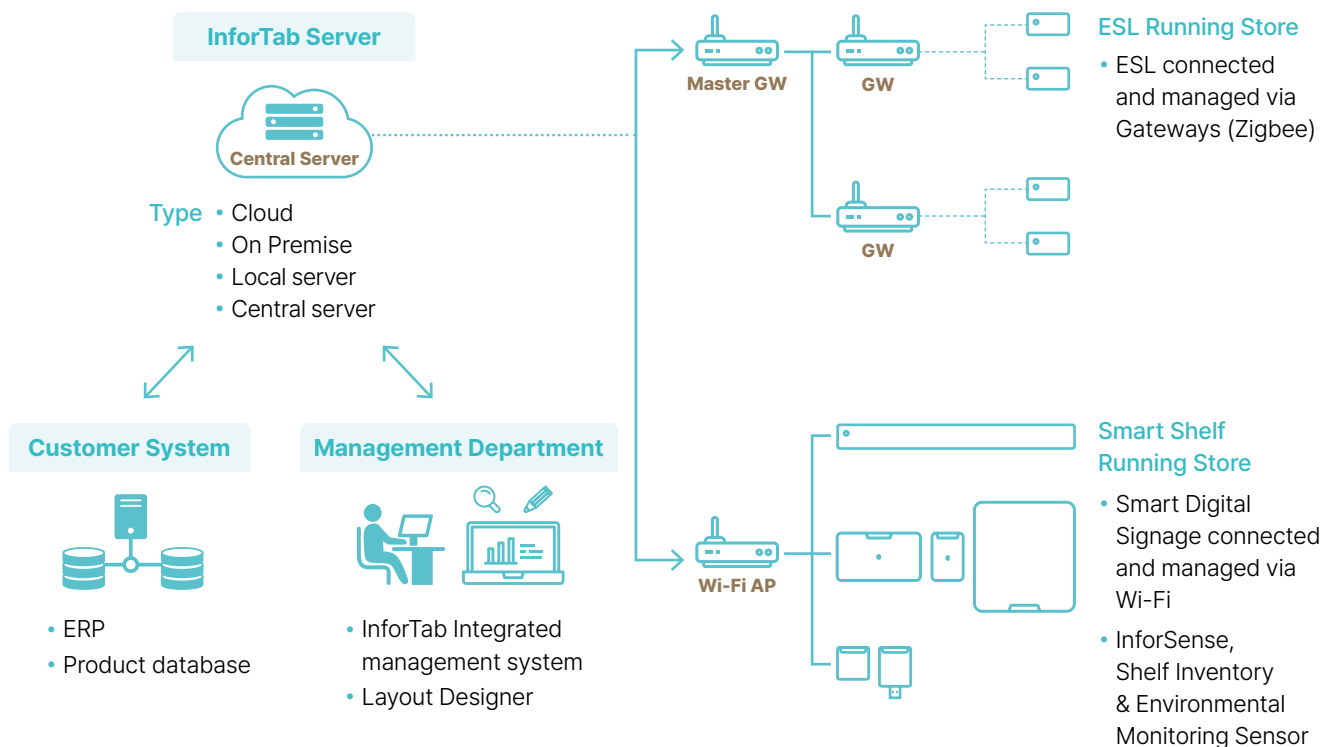| Resolution 124 dpi
| LED Available

R13A
| Dimensions 311.0 × 244.0 × 19.0 mm
| Resolution 88 dpi
| LED Not Available

INFORTAB SYSTEM

Quick and easy deployment of IoT Integrated solutions

RAINUS develops and manufactures various IoT solutions usable in any industry, designed to make business operation more efficient, accurate, and reliable, be it in a store, warehouse, office, or even hospital.

INFINITE

INFORTAB NETWORK

InforTab Server

Central Server

Type
- Cloud
- On Premise
- Local server
- Central server

Master GW **GW**

GW

ESL Running Store
- ESL connected and managed via Gateways (Zigbee)

Customer System
- ERP
- Product database

Management Department
- InforTab Integrated management system
- Layout Designer

Wi-Fi AP

Smart Shelf Running Store
- Smart Digital Signage connected and managed via Wi-Fi
- InforSense, Shelf Inventory & Environmental Monitoring Sensor

Expand your horizons along with Electronic Shelf Label

MANAGEMENT SERVICE

NMS (Network Monitoring System)
- Map-Based Operations Management
- Managing graphical user interface
- Notice (Escalations): Errors, Alarms (Email, SMS)
- Server and gateway status monitoring
- Gateway S/W upgrade, log download
- Tag update status
- Check battery status

Layout Designer
- Arrangement of predetermined items on pages of ESL
- Supports various fonts
- Easy image editing support
- Inserting an image, QR-code, barcode, text
- Can save design templates
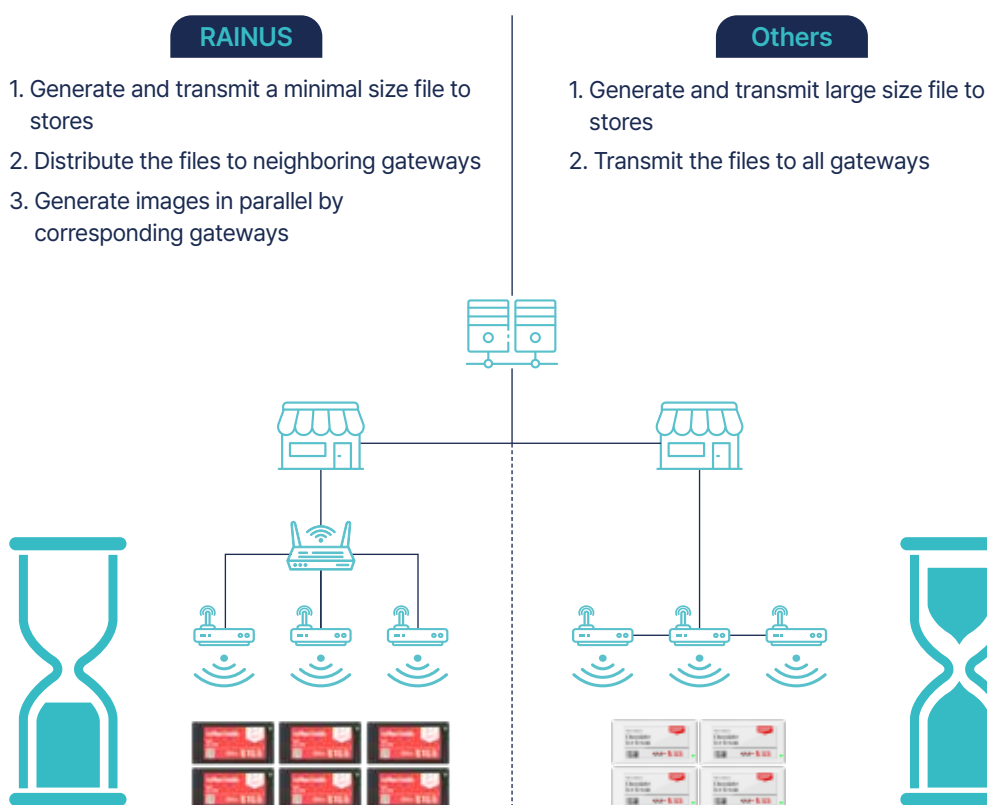
BI-WIRELESS COMMUNICATOR

Gateway Data transmission to all connected devices

Not only compatible with electronic shelf labels, but also with our product InforTab Plus (Digital Signage), and Other Solutions. It is a core communication device that plays the role of data transmission/reception for bi-directional communication between RAINUS devices and users. Ensures an indoor data coverage of up to 30m per model (Radius based on AP) and manages up to 18,000 electronic shelf labels per gateway. (* Can differ according to environment)

KEY FEATURES

- On Premise
- Cloud
- Fast Update
- Low Data Load
- Data Replication & Roaming Algorithm

Segmented image processing technology to maximize data processing speed and stability.

(* Fast image transfer speed even with large files)

RAINUS

1. Generate and transmit a minimal size file to stores
2. Distribute the files to neighboring gateways
3. Generate images in parallel by corresponding gateways

Others

1. Generate and transmit large size file to stores
2. Transmit the files to all gateways

SPECIFICATION

Gateway (GD-2000)

Gateway Lite (GD-1000)

Expand your horizons along with Electronic Shelf Label

coop   CRAI   DESPAR EUROSPAR INTERSPAR   CONAD   Pam

bennet   migross SUPERSTORE   TOGETHER COMMERCE   Keells   T·Mobile

EDION   BIC CAMERA   coop JEDNOTA   7-ELEVEN   coop Alleanza 3.0

famila SUPERMERCATI   Oasi Galvanetti   tigre AMICO Galvanetti   SIGMA   МАГНИТ

LOTTE PREMIUM FOOD MARKET   LOTTE DUTY FREE   E>CITY EXPERIENCE THE FUTURE OF ELECTRONICS   STANDARD RESTAURANT SUPPLY   HELLWEG Die Profi-Baumärkte

Westfalen   שופרסל   il Centesimo   X5 RETAIL GROUP   SAMSUNG 삼성전자

VISOTTO   7 ELEVEN SIGNATURE   SHINSEGAE   Dr.Max   THE HYUNDAI

NH농협은행   ABLE C&C CREATION & COMMUNICATION   croma A TATA Enterprise   pwc   CDS

OLIVE YOUNG   LOTTE DEPARTMENT STORE   A&O   kakaoM   SK broadband

SK siltron   SK telecom   RB   VINUM   우미린하우징세틀   창원한마음병원 CHANGWON HANMAEUM HOSPITAL

winegraph   KPMG   Pulmuone   농협 하나로 마트   농협 하나로유통   서울숲

CASE **STUDY**

Bennet is a well-established Italian hypermarket chain with 74 locations in northern Italy. They have installed 1 million of ESLs and proceeding with roll-out to all their stores.

PAM Panorama is a historic Italian retailer that adopted ESL in the early stage, decided to replace old ESLs with a new generation in 2022, and Selected Rainus instead of the former supplier due to high technology & efficiency, now doing a rollout of more than 120 stores for 1.6M of ESLs in 2023.

ECity, successfully operates a chain world-class multi-brand electronics retail stores across UAE's leading shopping malls. Proceeding with installation of Rainus Solution in all stores.

With Supermarket, Superstore and Hypermarkets, Migross can count on more than 50 stores in Italy. Rainus and Migross are consolidating their partnership through the full-chain rollout of the Rainus solution.

Expand your horizons along with Electronic Shelf Label

CASE **STUDY**

Visotto Supermarket is one of the most important grocery chain in Italy. After tested all Vendors Solutions, Visotto choose Rainus for the roll-out of 24 stores for half millions of ESLs.

Bic Camera is one of the biggest electronics retailer chains in Japan, rolled out all stores nationwide, recording 200,000 ESL tags in a single store.

7-eleven have installed InforTab in 35 of their stores in South Korea since 2018, including in their unmanned stores.

Conad is the largest Italian supermarket chain with more than 3000 stores. Proceeding for installation of 120.000 ESLs.

EDION

OLIVE YOUNG

A major consumer electronics retailer which operates 1,200 stores and 400 company-owned stores on average with 11K SKUs per store in Japan. Rolled out InforTab in 370 stores, with 4.5 million tags installed.

Olive Young is a cosmetics chain popular internationally. They have rolled out InforTab Plus in 2021 to increase sales and customer engagement, and have reported increase in both sectors.

LOTTE Super

croma
A TATA Enterprise

❀ SHINSEGAE

Lotte Super, giant supermarket chain, has decided to roll out InforTab and InforTab Plus in 155 of their locations in South Korea, with a total of 400.000 tags to be installed in 2022.
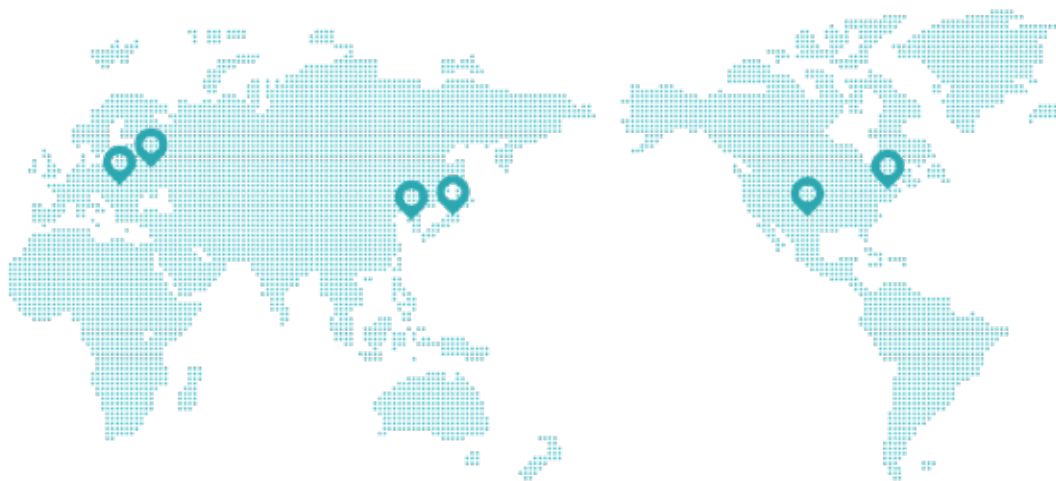
Croma is an Indian retail chain for consumer electronics. 300 stores across India were rolled with centralized server.

No.1 department store franchise in South Korea, rolled out 13 of its branches in Korea, including the premium wine store called "Wine House".

WEBSITE

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