EFFIROX

Pioneering E-paper Signage Solutions Provider

Effirox Product Catalogue

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COMPANY **INTRODUCTION**

30+	2000+	40+
Trusted Brands	Stores	Countries

Effirox Technology is a pioneering innovator in the electronic shelf label industry, the company was among the first in China to develop and manufacture electronic shelf labels. With a strong focus on research, development, and manufacturing, we provide high-performance, energy-efficient, and user-friendly ESL products that enhance efficiency and sustainability across multiple sectors.

Focus on IoT products related to epaper display

At Effirox, we specialize in a diverse range of E-Paper IoT devices like electronic shelf labels, e-ink commercial display, e-ink badges, e-ink room sign etc, designed to meet the evolving needs of modern enterprises.

End-to-End Solutions

As a full-service IoT provider, Effirox excels in:

Hardware & Software R&D: Proprietary firmware and cloud platforms for seamless control.

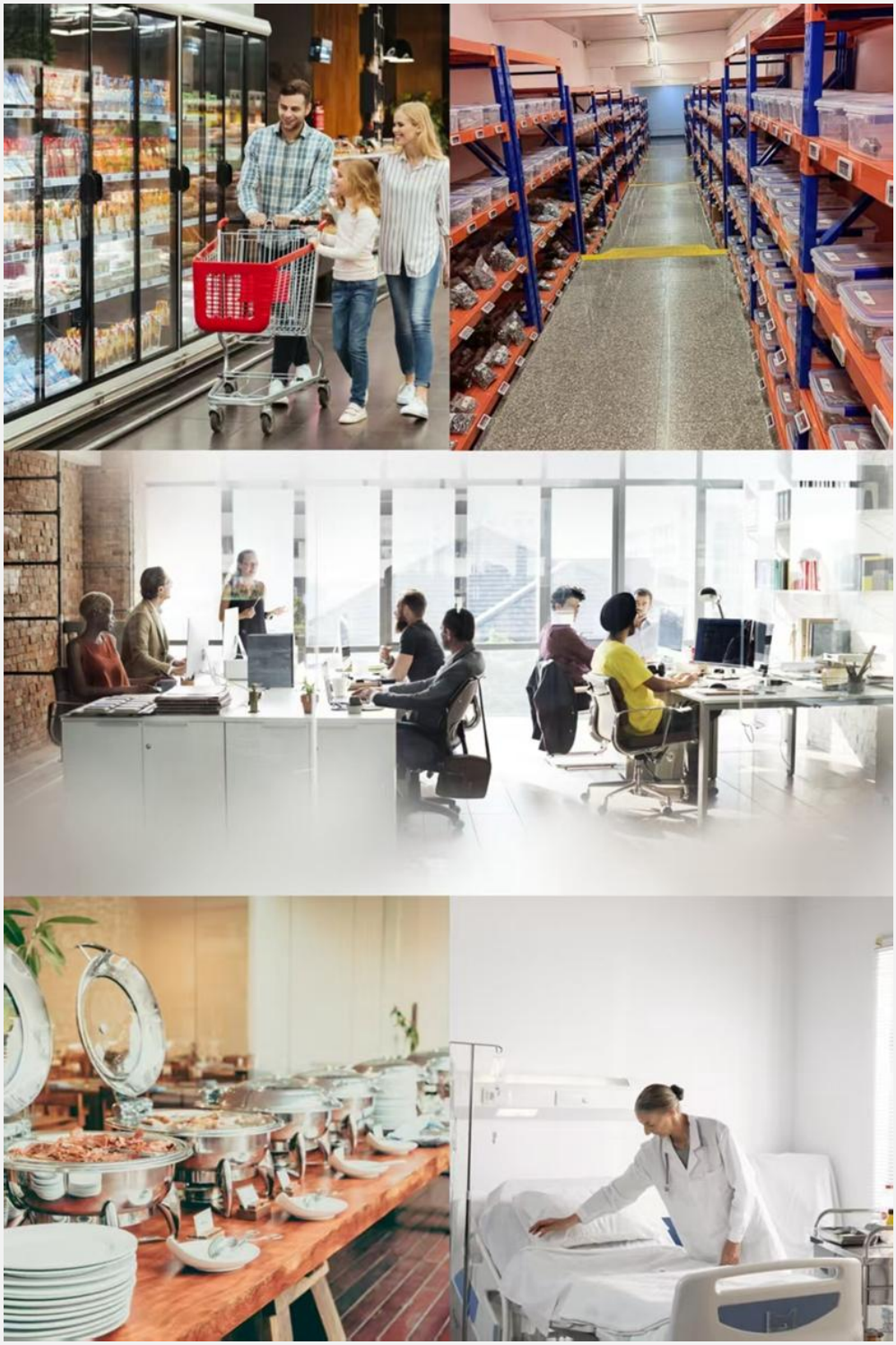
Manufacturing: Scalable OEM/ODM production with stringent quality standards.

Our solutions serve Smart Retail, Smart warehousing and logistics, Smart Manufacturing, Digital Office, Healthcare, Hospitality, and Consumer Electronics.

EFFIROX

Multi-scenario Solution Provider and Manufacturer for E-paper Products

Leveraging our proven success in retail electronic shelf labels, we deliver solutions for varied customer demands.



Smart Retail

Smart Warehousing

Paperless Office

Modern Hospitality

Smart Healthcare

PRODUCT PORTFOLIO

01 Electronic Shelf Labels(2.4G)

- For supermarket and chain stores

02 Bluetooth Digital Labels

- For small shops

03 WiFi E-ink Display

- Used as Digital Room Signage, Hospital bedside information card and many other scenarios

04 Enterprise-grade E-ink Badge

- Used as Work Badge, Exhibitor Badge

05 E-ink Signage

2.4G Electronic Shelf Labels

Top choice for small and medium-sized retail businesses

Effirox's Electronic Shelf Labels revolutionize retail by enabling smarter, more efficient operations. Our wireless electronic price tags combined with robust system support, help retailers cut costs, minimize errors, and elevate the customer experience.

Electronic Shelf Labels

1 Hardware Features

- 2.4G wireless communication
- Multi-color e-ink display
- Multi-device management
- Fast Refresh
- Ultra-long Life battery
- Durable and anti-collision

2.4G Electronic Shelf Labels

2 ESL software solution

Support cloud solution and local deployment solution

With PC web dashboard and APP
Support Windows, Linux, Mac, Android and iOS

More efficient

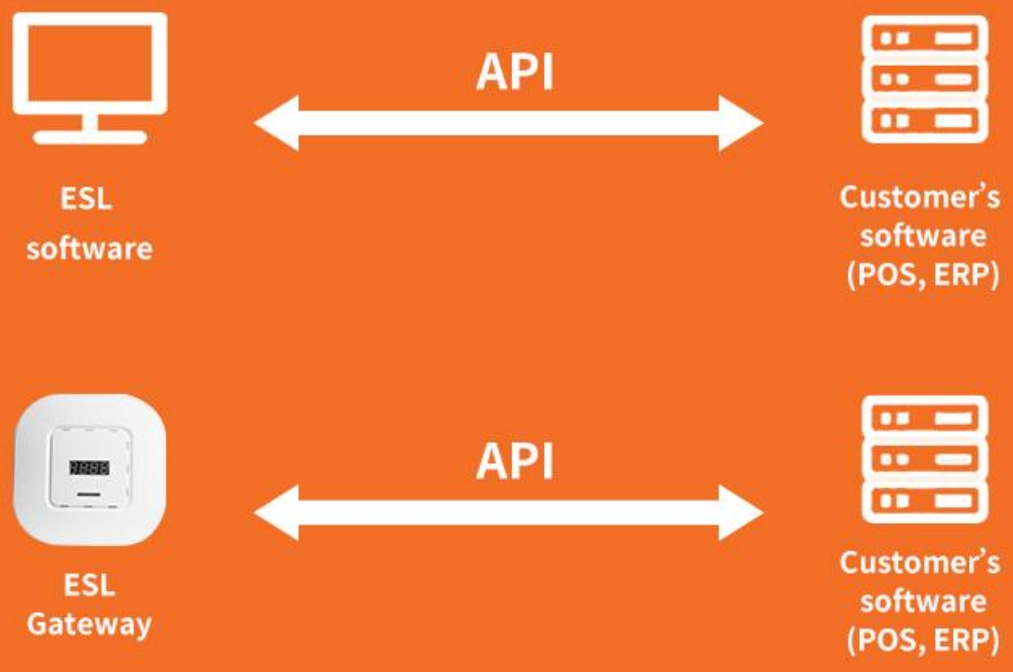
More flexibility

More secure

2.4G Electronic Shelf Labels

3 Integration

Support software integration and hardware integration



More efficient

More flexibility

More possibilities

2.4G Electronic Shelf Labels

4 Product Lineup

1.54 inch

- Screen area(mm): 27.51*27.51
- Display Resolution: 200*200 pixel
- Operate Temperature: 0°C--40°C
- Battery Life: 10 years

2.13 inch

- Screen area(mm): 48.55*23.71
- Display Resolution: 250*122 pixel
- Operate Temperature: 0°C--40°C
- Battery Life: 10 years

2.13 inch Freezer

- Screen area(mm): 48.55*23.71
- Display Resolution: 250*122 pixel
- Operate Temperature: -20°C--40°C
- Battery Life: 10 years
- Waterproof: IP68

2.66 inch

- Screen area(mm): 60.09*30.70
- Display Resolution: 296*152 pixel
- Operate Temperature: 0°C--40°C
- Battery Life: 10 years

2.66 inch Freezer

- Screen area(mm): 60.09*30.70
- Display Resolution: 296*152 pixel
- Operate Temperature: -20°C~40°C
- Battery Life: 10 years
- Waterproof: IP68

2.9 inch

- Screen area(mm): 66.90*29.06
- Display Resolution: 296*128 pixel
- Operate Temperature: 0°C--40°C
- Battery Life: 10 years

2.4G Electronic Shelf Labels

4 Product Lineup

3.5 inch

- Screen area(mm): 79.68*38.00
- Display Resolution: 384*184 pixel
- Operate Temperature: 0°C--40°C
- Battery Life: 10 years

4.2 inch

- Screen area(mm): 84.80*63.60
- Display Resolution: 400*300 pixel
- Operate Temperature: 0°C--40°C
- Battery Life: 10 years

4.2 inch waterproof

- Screen area(mm): 84.80*63.60
- Display Resolution: 400*300 pixel
- Operate Temperature: 0°C--40°C
- Battery Life: 10 years
- Waterproof: IP67

5.83 inch

- Dimension(mm): 134.5*114.0*9.0
- Screen area(mm): 106.00*31.50
- Display Resolution: 522*152 pixel
- Operate Temperature: 0°C--40°C
- Battery Life: 10 years

2.4G Electronic Shelf Labels

4 Product Lineup

7.5 inch

- Dimension(mm): 178.0*127.0*9.0
- Screen area(mm): 163.2*97.92
- Display Resolution: 800*480 pixel
- Operate Temperature: 0°C--40°C
- Battery Life: 10 years

10.2 inch

- Dimension(mm): 233 x 170.9 x 9
- Screen area(mm): 215*143
- Display Resolution (Pixel): 960 x 640
- Working temp.: 0~40°C
- Battery Life: 10 years

12.5 inch

- Dimension(mm): 269.8 x 225.7x 11.5
- Screen area(mm): 252.98*190.90
- Display Resolution: 1304*984
- Operate Temperature: 0°C--40°C
- Battery Life: 10 years

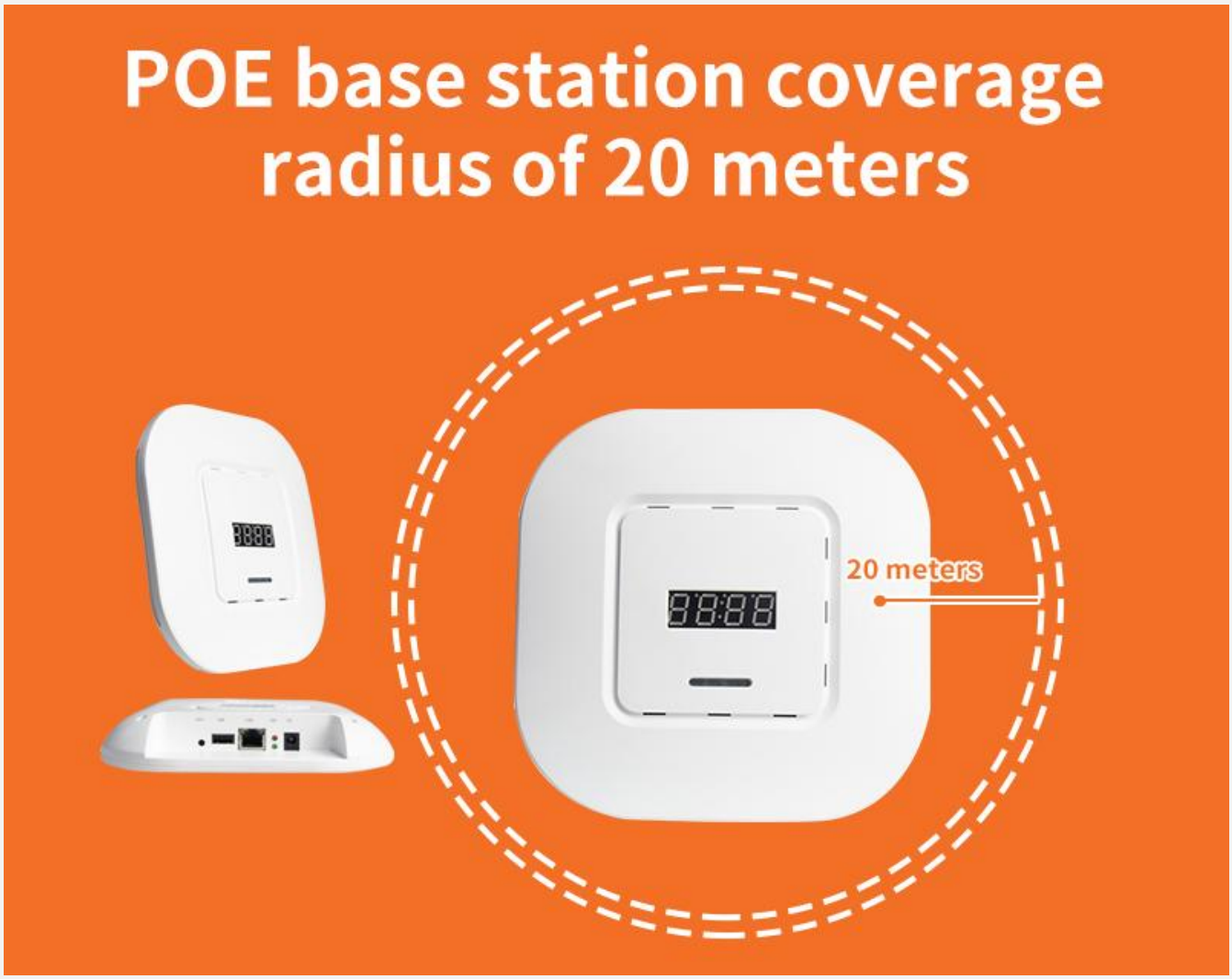
13.3 inch

- Dimension(mm): 294*230*9 mm
- Screen area(mm): 275*195
- Display Resolution: 960*680 pixel
- Operate Temperature: 0°C--40°C
- Battery Life: 10 years

Electronic Shelf Labels

4 Product Lineup

ESL Gateway(base station)



Specifications:

- Communication Distance: indoor 20 meters radius
- Recommended maximum ESLs per gateway: 2,000 units
- Communication: 2.4Ghz private protocol
- Working voltage: DC 4.8-5.2V
- Interface: DC-in port, POE, ethernet port

Bluetooth Digital Labels

1 Product Features

- Zero Base Stations - Direct phone-to-display control
- 5-Minute Setup - No technical skills required

EFFIROX

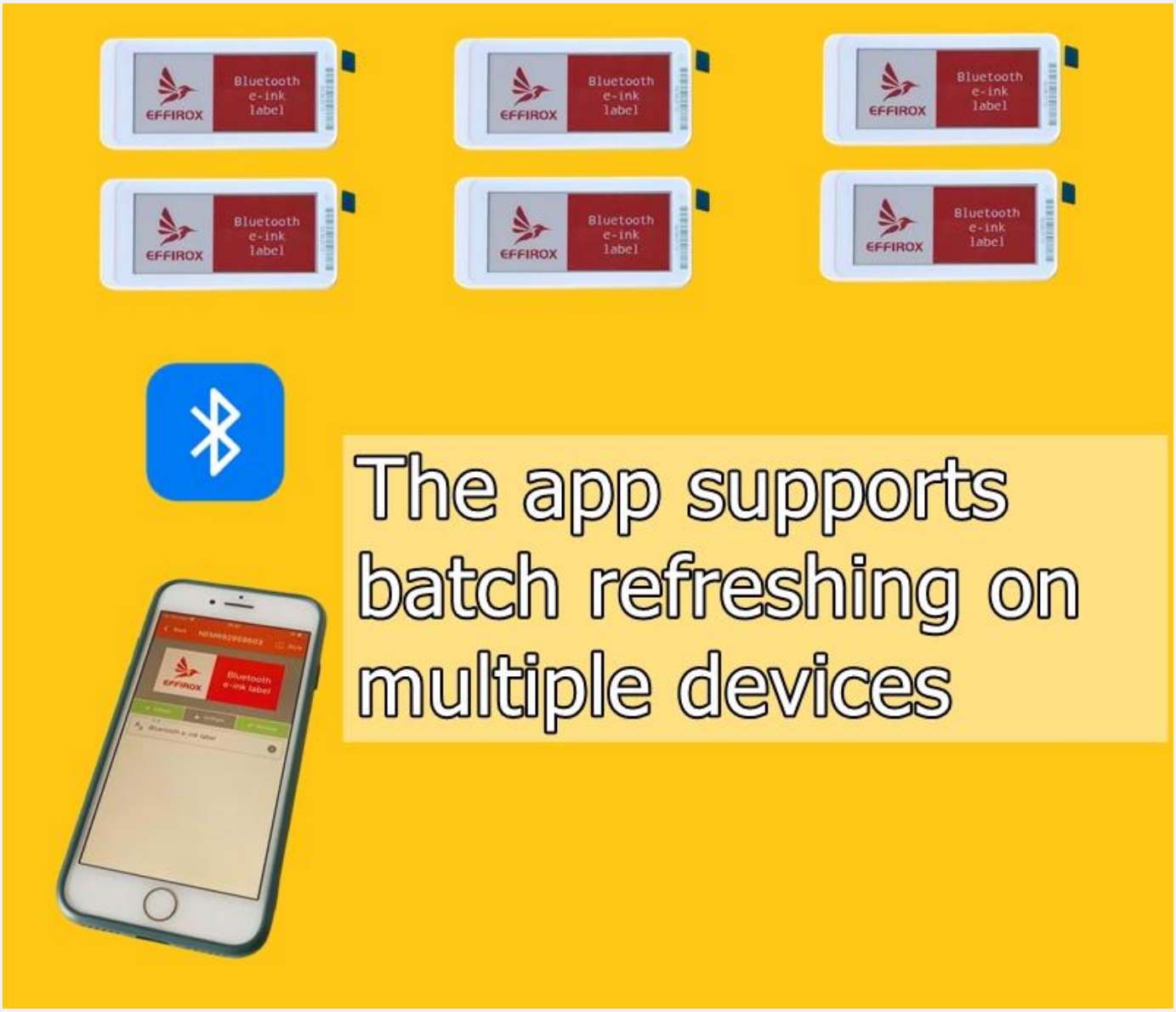
Bluetooth Digital Labels

2 How It Works

Design custom templates on our user-friendly PC web software, then access and edit them anytime through the app

Bluetooth Digital Labels

2 How It Works



Bluetooth Digital Labels

3 Designed for small businesses

- Out-of-box solution
- Help you save investment in IT technicians and servers
- Designed for sustainability: fully recyclable, user-replaceable battery, and a 10-year durability guarantee

Bluetooth Digital Labels

4 Product Lineup

2.1 inch

- Screen area(mm): 48.55*23.71
- Display Resolution: 250*122
- Display color: B/W/R 3 color
- Operate Temperature: 0°C--40°C
- Battery Life: 3 years

2.9 inch

- Screen area(mm): 66.90*29.06
- Display Resolution: 296*128
- Display color: B/W/R/Y 4 color
- Operate Temperature: 0°C--40°C
- Battery Life: 3 years

4.2 inch

- Screen area(mm): 84.80*63.60
- Display Resolution: 400*300
- Display color: B/W/R 3 color
- Operate Temperature: 0°C--40°C
- Battery Life: 3 years

7.5 inch

- Screen area(mm): 163.2*97.92
- Display Resolution: 800*480
- Display color: B/W/R 3 color
- Operate Temperature: 0°C--40°C
- Battery Life: one year per charge

Bluetooth Digital Labels

4 Product Lineup

7.3 inch

E Ink® Spectra 6 full color epaper screen

- Screen area(mm): 163*98
- Display Resolution: 800*480
- Display color: Black/White/Red/Yellow/Blue/Green
- Operate Temperature: 0°C--40°C
- Endurance time: 1 year per charge
- Battery type: Rechargeable battery 3000mAh

10.2 inch

- Dimension(mm): 238*177*13.5
- Screen area(mm): 215*143
- Display color: Black/White/Red 3 color
- Display Resolution (Pixel): 960 x 640
- Working temp.: 0~40°C
- Endurance time: 1 year per charge
- Battery: rechargeable battery, 3000 mAh

WiFi E-ink Display

1 Product Features

Zero Infrastructure - Works with existing WiFi

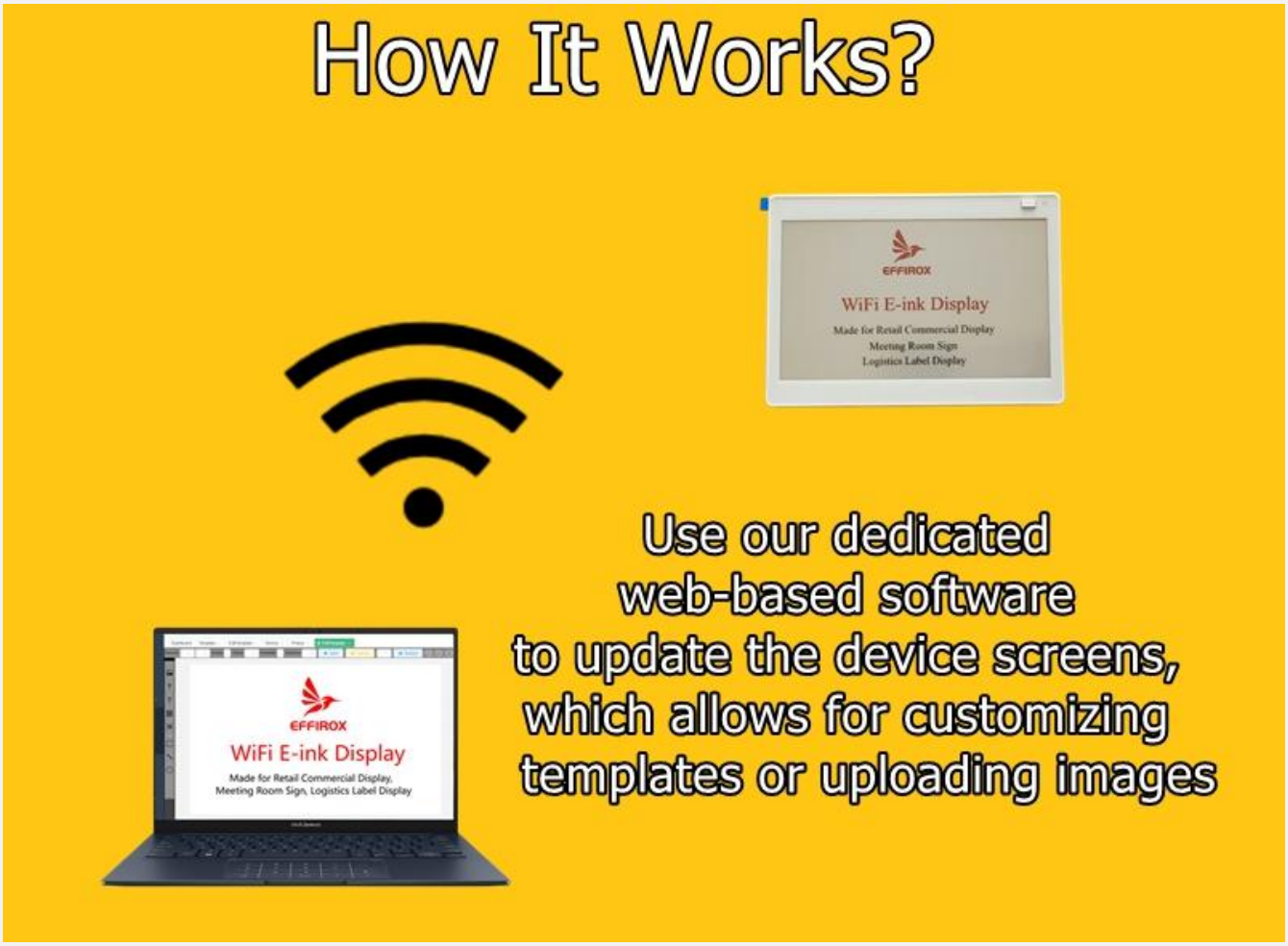
Central Control - Update 100+ displays remotely

Cord-Free, easy to set up

Comes with rechargeable battery, fully recyclable

WiFi E-ink Display

1 Product Features



Zero Infrastructure - Works with existing WiFi

Central Control - Update 100+ displays remotely

Multiple sizes for multiple scenarios

Glare-Free - Perfect for bright environments

WiFi E-ink Display

2 Product Lineup

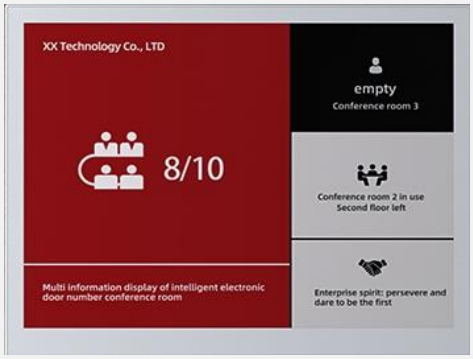
7.5 inch

- Dimension(mm): 180*130*13
- Screen area (mm): 163.2*97.92
- Display color: B/W/R 3 color
- Display Resolution: 800*480 pixel
- Operate Temperature: 0°C--40°C
- Battery: rechargeable battery, 3000 mAh

10.2 inch

- Dimension(mm): 238*177*13.5
- Screen area(mm): 215*143
- Display color: B/W/R 3 color
- Display Resolution (Pixel): 960 x 640
- Working temp.: 0~40°C
- Battery: rechargeable battery, 3000 mAh

13.3 inch



- Dimension(mm): 298*232*13.5 mm
- Screen area(mm): 275.52(H) * 195.16(V)
- Display color: B/W/R 3 color
- Display Resolution: 960*680 pixel
- Operate Temperature: 0°C--40°C
- Battery: rechargeable battery, 4000 mAh

WiFi E-ink Display

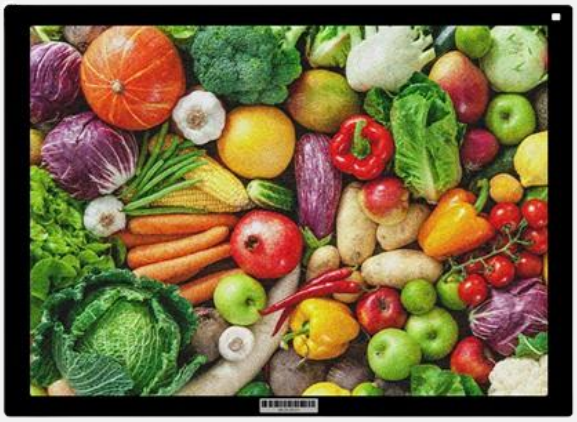
2 Product Lineup

E Ink® Spectra 6 full color epaper screen

7.3 inch

- Screen area (mm): 163.2(H) * 97.92(V)
- Display Resolution: 800*480
- Display color: Black/White/Red/Yellow/Blue/Green
- Operate Temperature: 0°C--40°C
- Endurance time: One charge lasts for a year
- Battery type: Rechargeable battery 3000mAh

13.3 inch



- Screen area (mm): 275.52(H) * 195.16(V)
- Display Resolution: 1600*1200 (4:3)
- Display color: Black/White/Red/Yellow/Blue/Green
- Operate Temperature: 0°C--40°C
- Endurance time: One charge lasts for a year
- Battery type: Rechargeable battery 4000mAh

WiFi E-ink Display

3 Use Cases

Meeting room scheduling displays

Hospital Digital Bedside Card

Reception Digital Information Display

Digital Schedule Management Display

WiFi E-ink Display

4 Accessories for every situation

Wall mount

desktop bracket

clip

Custom accessories upon request

Enterprise-grade Smart E-ink Badge

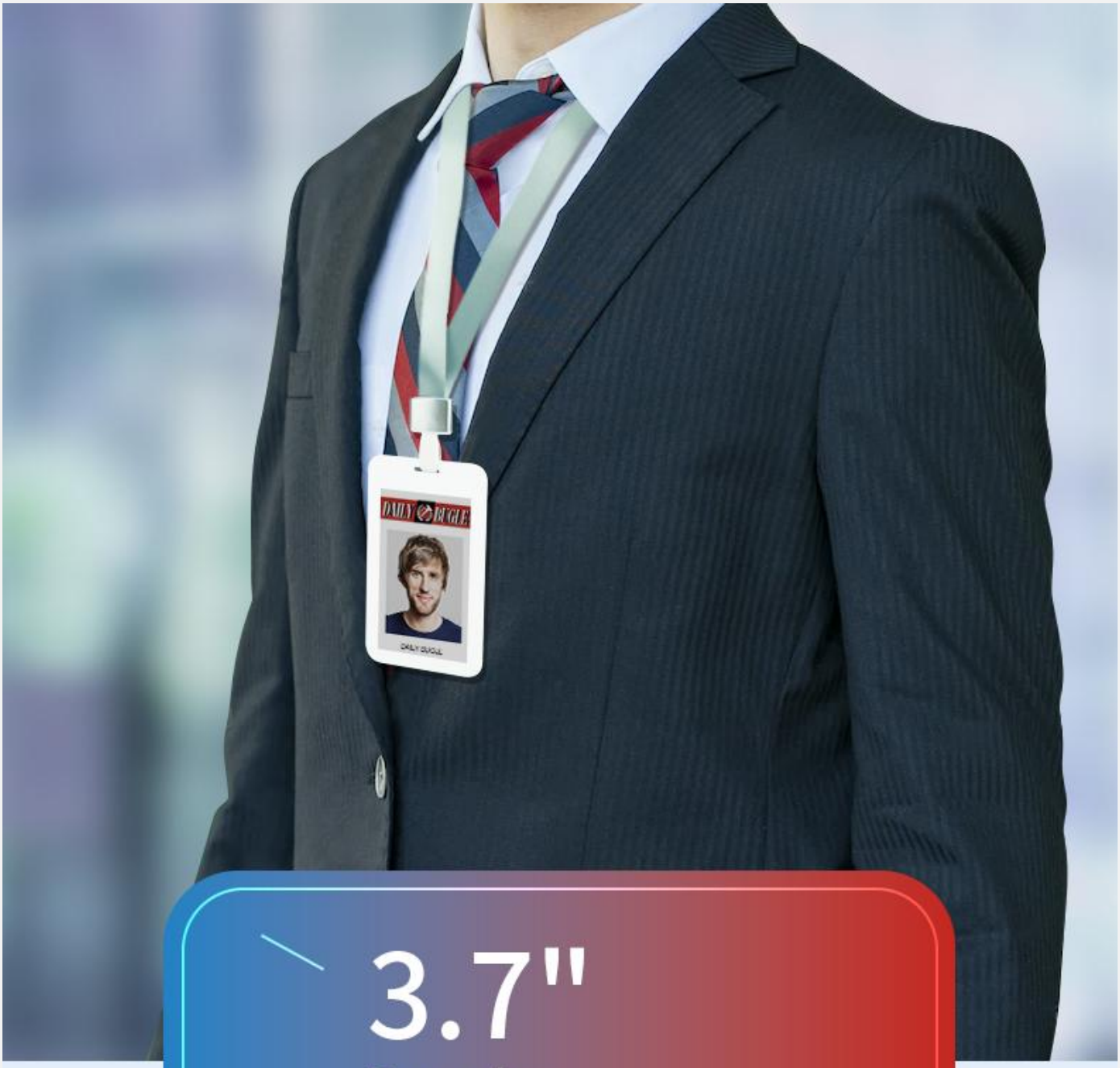
1 Product Features

E-ink Display

NFC Technology

Battery Free

Enterprise-grade Smart E-ink Badge



3.7"

Powerless
Electronic Badge
with epaper display

Where can we use it?

Employee Badge

Visitor Badge

Exhibitor Badge

Conference Use

Campus Card

Consumption Card

With IC Card function

It is an IC Card for Access Control or Work Attendance

What is the value of the product?

- Replace the traditional disposable badge, saving material costs;
- Electronic badges can be recycled, which is not only environmentally friendly, but also saves a lot of material costs in the long run;
- Can be used for access control card, attendance card, visitor card, campus card etc.;
- Electronic badges are more efficient and time-saving when you need to make cards in batch.

Enterprise-grade Smart E-ink Badge

2 Product Lineup

3.7 inch
E-ink Badge

Screen type: Dot matrix e-ink screen
Display color: Black/White/Red
Product size: 110*65*5.2 mm
Screen size: 3.7 inches
Active display area(mm): 47*81.5
Resolution: 240*416

Enterprise-grade Card Reader

Dedicated NFC card reader provides enterprise-level reliability and stability, giving you efficient operation experience.

Batch update 100+ labels in 40 minutes. Delivers 99.9% successful transfer rate.

E-ink Signage

1 Product Features

Cloud-Based Full Color Signage Management Solution

- Cordless, Long Battery
- Remote Content Management
- API Integration

E-ink Signage

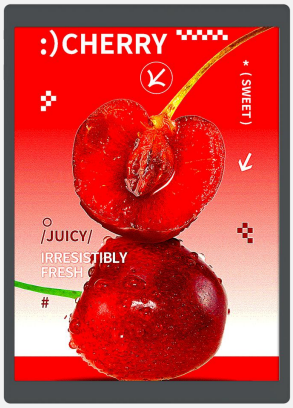
1 Product Features

E-ink Signage

1 Product Features

E-ink Signage

2 Product Lineup



Model: T133GRGS1

Model: T315GRGS1

Effirox E-Ink Signage: Featuring 13.3” and 31.5” displays with E-Ink Spectra 6 technology, these energy-efficient screens deliver vibrant, full-color content even offline. Remotely manage content via Wi-Fi, schedule promotions, and extend battery life for months. Ideal for retail, libraries, exhibition halls, showrooms, conferences, and hotels—effortlessly adaptable to any space.

Technology

At the core of our innovation lies a suite of proprietary technologies designed to deliver unmatched performance and reliability. These cutting-edge solutions—developed through years of R&D—empower our products to excel in real-world applications. Below, we highlight the key technologies that set us apart and drive value for our customers.

New Generation E-paper Display Technology

Ultralow Power Wireless RF Communication

Digital Media Signaling System

Internet of Things gateway technology

Internet of Things cloud platform technology

Service

From custom software development and hardware solutions to flexible OEM/ODM manufacturing, we partner with you at every stage.

Software Services	Hardware Services
Cloud Platform	ID design
Private Server Setup	PCBA design
System Integration	Prototyping
Technical Support	Firmware
SDK	Accessories
App Development	Packaging

Why Choose Us

10 years of know-how

10 years of focus on the R&D and production of low-power electronic paper display products.

One stop service

With hardware and software R&D teams, we provide one-stop services from R&D, design, production to after-sales.

Well-known brands choose us

More than 30 well-known domestic and foreign brands choose our products.

Customized service from hardware and software

Housing customize

Brand customization

Software customize

Accessories customize

EFFIROX

Customer Cases

Xiaomi

Sector: Electronic Stores
Year of installation: 2022

Panasonic

Sector: Home appliances
Year of installation: 2023

Hema Fresh

Sector: supermarket chain
Year of installation: 2021

HUAWEI

Sector: Electronic Stores
Year of installation: 2022

Customer Cases

State Grid

Sector: power sector
Year of installation: 2024

Supercor

Sector: supermarket chain
Year of installation: 2023

Contact Us

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