

12.5 inch 433MHz Electronic Shelf Labels SETR1250R Specification

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History

| REV | DESCRIPTION | RELEASE DATE | EDITOR |
|-----|---------------------|--------------|--------|
| 1.0 | Preliminary Release | 2017/3/1 | |
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Contents

1. General Description 3

2. Feature 3

3. Specification..... 4

4. Network structure..... 8



1. General Description

SERTAG's platform is a complete hardware-software system combining 433Mhz wireless communication and ESL tags, in-store navigation, ultra-low power displays, merchandising supports and tools and server infrastructure (cloud, distributed or in- store). SERTAG's platform is open to the third-party technologies and enables interconnection with any situation software or system. It offers the flexibility you need to anticipate and overcome any challenge.

SETR0750 series ESL tags with high definition displays can be adapted to any sales scenarios. It supports text, promotion, QR code or barcode and can be reused with no paper required. It can be used for different application, such as the retails, warehouses and logistics management etc.

2. Feature

- Cloud or local Server based options.
- Communication band is 433/868/915 MHz
- E-Paper resolution is 1304x984 pixels
- Perfect for the retails, warehouses and logistics management

3. Specification

3.1 12.5 inch Electronic Shelf Label



■ Feature

| NO. | ITEM | DATA |
|-----|------------------------|--|
| 1 | Part NO. | SETR1250R |
| 2 | Outline | 281.3mm(H) ×227.2mm(V)×17.8mm(D) |
| 4 | Color Display | Black, white, red |
| 5 | Display Size | 12.5 inch |
| 6 | Display Resolution | 1304(H)×984(V) |
| 8 | Communication Band | 433MHz/868 MHz /915 MHz |
| 9 | Communication Protocol | Private Protocol |
| 10 | Response Time | 9s(Configurable) |
| 11 | Battery Life | 5 years(refresh times is not more than 2 times a day), Replaceable |
| 12 | Battery | CR2450*6 |
| 13 | Operating temperature | 0~50°C |
| 14 | Storage temperature | -10~60°C |
| 15 | Operating humidity | Less 75% |
| 16 | Operating Voltage | 2.4V~3.6V |

■ Function

| NO. | ITEM | DESCRIBE |
|-----|---|---|
| 1 | Image transmission | Support full screen image wireless transmission, display the complete image data. |
| 2 | Partial image transmission | Support local small picture wireless transmission, update display partial image |
| 3 | Chinese character, English, symbol font | The tag integrates Unicode encoding more than 27000 Chinese character font, English and symbol font library, and supports coding format wireless transmission. |
| 4 | Partial text | Support partial areas to update text, numbers, symbols |
| 5 | Frequency hopping anti-jamming | System concurrency and anti-interference through this function |
| 6 | Batch processing mode | This mode can achieve 10 seconds update the 100 tags of the high-speed update function, depending on the customer system. |
| 7 | Temperature detection | Each tag supports temperature sampling, and the system can be read. |
| 8 | Electric quantity detection | <ul style="list-style-type: none"> ● Each tag supports the power sampling function. The system can be read, depending on the client system ● Low power alarm, the label displays the low power sign in the touch area when it is out of power, and the system background prompts. |
| 9 | LED light flicker setting | <ul style="list-style-type: none"> ● Support 3 color independent control lights ● Each light flashing frequency is 1 times per second ● Each LED supports the number of flashing lights users can set |
| 10 | Storage page | Support to save 4 display pages |

■ Functional description of tag font library coding format

The tag can realize user defined display template. The display capability is as follows:

- Support Chinese characters coding to Unicode, which can display more than 27000 Chinese characters, and support arbitrary areas to display 12 (H) * 12 (V), 16 (H) * 16 (V), 24 (H) * 24 (V), 32 (H) * 32 (V), 48 (H) * 32 (V), 64 (H) * 32 (V)

- The support character code is Unicode, which can display 96 numbers, letters and symbols of the 0x0020~0x007F interval, and support the dot matrix characters that display 7 (H) * 5 (V), 12 point unequal width, 16 point unequal width, 24 point unequal width and 32 point unequal width in any area.
- Support the display of battery power symbols in any area.
- Support any position to draw arbitrary length horizontal and vertical lines.
- It supports the anti color display function of Chinese characters, characters, horizontal lines and vertical lines.
- Support any area to display EAN13 and Code128-B standards (refer to national standard "GB/T 18347-2001") bar code, EAN13 standard size 26 (H) x 113 (V), Code128 standard size 20 (H), and two bar codes that support doubling, removing numbers, arbitrarily designated height (more than 16 rows).
- It supports the display of dot matrix images in any area. The dot matrix image supports 1 times the magnification function, and the dot matrix image can be extended to full screen dot matrix.

3.2 Base station /Access Point (AP)



| Item | Specification |
|----------------------------|----------------------------|
| Model | SETAP01R1 |
| Communication | 433Mhz |
| Number of EGateway1C Cover | Each covers> 500ESLs |
| Covered distance | 15m-20m (Radius) |
| Size | 120mm(V) *120mm(H)*30mm(D) |
| Working Temperature | -10°C ~ + 55°C |
| Power supply | DC +5.0V |
| Port to Server | Ethernet cable/RJ45 |
| Installation way | Screw |
| Weight | 350g |

4. Network structure

There are two types of network structure for SERTAG Label system. It is cloud network version and the single store version. They connected through wireless communication between the ESLs and the base stations(AP) and it is easy to refresh all the display content.

