SE-214F
2.1 inch E-paper Display

The SE-214F is a high-resolution, fully graphical, e-paper display built to work efficiently in low temperature environments (0° to -25°C) and ideal for freezer and cold storage applications. The label has a high-efficiency RGB LED to provide enhanced visual attention and a location indicator.

Highlights

- Works efficiently in cold environments from -25 °C to 0 °C

- IP67 rating against dust and moisture

- Enables on-demand, real-time pricing, promotions and product information

- Improves efficiency by reducing waste, minimizing errors and decreasing labor costs

- E-Paper display technology boasts a high-contrast ratio and superior viewing angle

- Features black and white pixel colors

- High-efficiency RGB LED

- Optional NFC for application versatility

- Adjustable LED brightness and duty cycle

- 100% display content flexibility and customizable template design

- Centralized system administration with the Opticon ESL Web Server Software

- Bistable display technology allows image to be retained with loss of power

- High-contrast display supports scannable 1D and 2D barcodes

- Extensive accessories catalog offering secure, durable and attractive mounting solutions

- Extremely low power consumption

- 2.4 Ghz, 802.15.4 based protocol

- 250 x 122 pixels

SE-214F
Product Specifications

Operation

CPU: 64 MHz Arm® Cortex™-M4

Clock frequency: 32 MHz

Memory

Internal ROM: 192 KB

Internal RAM: 24 KB

External ROM: 1 MB

Operating indicators

LED: 1, RGB, adjustable brightness and duty level

Communication

Range: 30-50 meters

Radio frequency: 2.4 GHz (2405 - 2480 MHz)

Radio transmission speed: up to 250 kbps

Protocol: IEEE 802.15.4 based

Capacity: 2,000 ESL displays per base station

Power

Battery: special low temperature lithium battery

Lifespan: Approximately 5 years at room temperature with 5 updates per day, no LED usage

Display

Size: 2.1'', 250 x 122 pixels (WxH), black and white

Active area: 48.6 x 23.7 mm (WxH)

Pixel Pitch: 130 dpi

Durability

Temperature in operation: -25 to 25 °C / -13 to 77 °F

Temperature in storage: -25 to 60 °C / -13 to 140 °F

Humidity in operation: 40 - 60% (non-condensing)

Humidity in storage: 40 - 60% (non-condensing)

Protection rate: IP67

Physical

Dimensions (WxHxD): 71.5 x 38.5 x 15.2 mm / 2.81 x 1.52 x 0.6 in

Weight: Ca. 35.0 g / 1.2 oz

Regulatory & Safety

Product compliance: CE, FCC, RoHS, REACH

Models

NFC: optional

Accessories

Refer to the SE-Range Accessories brochure online at: https://opticon.com/product-category/display-solutions/mounting/

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