EE-214RY
2.1 inch E-paper Display

Opticon's EE-range are high resolution fully graphical, e-paper based displays. The display shows black, white, red and yellow colors. This ESL comes in 2.1 and 2.9 inch labels and has a high efficiency red LED.

Highlights

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

- Reduces waste and labor costs and minimizes errors

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

- High efficiency LED (red) to attract attention

- Complementary red and yellow color

- 100% display content flexibility and centralized administration of all devices and content via the Opticon ESL Server Software

- Bi-Stable display, so the image will remain on the display even after power is disconnected

- High contrast display allows scanning of barcodes off the display using a barcode scanner

- Display can be remotely updated via bidirectional communication using the Opticon Base Station

- A wide variety of secure, durable and esthetically pleasing display shelf mounting options and accessories for in-store shelving are available, for more information, check the Accessories brochure

- Extremely low power consumption

- 2.4 Ghz, 802.15.4 based protocol

- 250 x 122 pixels

EE-214RY

Product Specifications

Operation

CPU: 8051 8-bit MCU

Clock frequency: 32 MHz

Memory

Internal ROM: 96 KB

Internal RAM: 6 KB

External ROM: 512 KB

Operating indicators

Number of LEDs: 1, red

Buzzer: programmable frequency and volume

Communication

Range: typical 25 meter indoor; 100 meter open-field

Radio frequency: 2.4 GHz (2405 - 2480 MHz)

Radio transmission speed: up to 250 kbps

Protocol: IEEE 802.15.4 based

No. of EE-214RY ESL's per base station: 2,000

Power

Battery: 2x CR2450 Lithium primary batteries

Operating voltage 1.9~3.3V

Nominal voltage: 3.0V

Usable time: Approximately 5 years at room temperature, with 4 updates per day, no LED usage

Display

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

Active area: 48.55 x 23.71 mm (WxH)

Contrast ratio: 8:1

Pixel Pitch: 130 dpi

Durability

Temperature in operation: 5 to 40 °C / 41 to 104 °F

Temperature in storage: -20 to 50 °C / -4 to 122 °F

Humidity in operation: 20 - 60% (non-condensing)

Humidity in storage: 20 - 60% (non-condensing)

Physical

Dimensions (WxHxD): 69.9 x 34.7 x 11.5 mm / 2.75 x 1.37 x 0.45 in

Weight: Ca. 45.0 g / 1.59 oz

Regulatory & safety

Product compliance: EN 60950-1:2006 +A11:2009+ A1:2010+A12:2011+A2:2013, IEC 60950-1:2005 (2nd Edition)+Am 1:2009+Am 2:2013, EN55022: 2010, EN55024: 2010, FCC, WEEE 2012/19/EU, RoHS 2011/65 EC

Accessories

For dedicated and universal accessories, check online the Accessories brochure of the EE-Range.

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