

EE-214R

2.1 Inch E-Paper Display



Highlights

- E-Paper display technology boasts a high contrast ratio and superior viewing angle
- 100% display content flexibility and centralized administration of all devices and content
- Bi-Stable display, so the image will remain on the display even after power is disconnected
- Extremely long battery life and low power consumption
- High contrast display allows scanning of bar codes off the display using a standard barcode scanner
- Display can be remotely updated via bidirectional communication using the Opticon Base Station
- Key metrics: 2.1 inch, 250 x 122 pixels (WxH), black, white and red resolution, 8:1 contrast ratio and 130 DPI
- Dimensions: 2.75" x 1.37" x 0.45" (WxHxD) and weight: 1.59 ounces (including batteries)
- 2.4 Ghz, 802.15.4 based protocol
- A wide variety of secure, durable and esthetically pleasing display shelf mounting options and accessories for in-store shelving are available

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Product Specifications

OPERATION

CPU: 8051 8-bit MCU

CLOCK FREQUENCY: 32 MHz

MEMORY

INTERNAL ROM: 96 KB

INTERNAL RAM: 6 KB

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-293R ESL'S PER BASE STATION: 2,500

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 2 updates per day

DISPLAY

SIZE: 2.1 in, 250 x 122 pixels (WxH), black, white and red

ACTIVE AREA: 48.55 x 23.71 mm (WxH)

CONTRAST RATIO: 8:1

PIXEL PITCH: 130 dpi

DURABILITY

TEMPERATURE:

Operation: 41 to 104 °F (5 to 40 °C)

Storage: -4 to 122 °F (-20 to 50 °C)

HUMIDITY:

Operation: 20 - 60% (non-condensing)

Storage: 20 - 60% (non-condensing)

PHYSICAL

DIMENSIONS (WXHXD): 2.75 x 1.37 x 0.45 in (69.9 x 34.7 x 11.5 mm)

WEIGHT: Ca. 1.59 oz (45.0 g)

REGULATORY AND 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.

