EE-420R
4.2 inch E-paper Display

The EE-420R is a 4.2 inch e-paper display with a clean and bright interface that communicates the prices and promotions in an efficient way. The base station allows the staff to easily update the display with new content.

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
- 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 standard 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
- Extremely low power consumption
- 2.4 Ghz, 802.15.4 based protocol
- 400 x 300 pixels
- Complementary red color

EE-420R

Product Specifications

Operation

CPU: 8051 core 8-bit MCU

Clock frequency: 32 MHz

Memory

Internal ROM: 256 KB

Internal RAM: 8 KB

Operating indicators

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

Communication

Radio frequency: 2.4 GHz (2405 - 2480 MHz)

Radio transmission speed: up to 250 kbps

Protocol: IEEE 802.15.4 based

No. of EE-420R ESL's per base station: 2,000

Updates per hour: Up to 1,800 labels

Power

Battery: 2x Alkaline AAA

Operating voltage 3.0V

Usable time: Approximately 5 years at room temperature, with 2 updates per day, with 20 seconds poll time

Display

Size: 4.2'', 400 x 300 pixels (WxH), black, white and red

Active area: 84.8 x 63.6 mm (WxH)

Contrast ratio: 8:1

Pixel Pitch: 120 dpi

Durability

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

Temperature in storage: -20 to 60 °C / -4 to 140 °F

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

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

Physical

Dimensions (WxHxD): 101 x 93 x 16 mm / 3.98 x 3.66 x 0.63 in

Weight: Ca. 101 g / 3.56 oz

Regulatory & safety

Product compliance: CE, FCC, RoHS, EN60950-1, IEC60950-1, EN55022, EN55024

Accessories

Brackets for multiple usage, compliant to various existing holders in the market.

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