

EE-440

4.4 Inch ePaper Display



Highlights

- ePaper 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—3 years at room temperature (two internal AAA batteries, update frequency: 4 times per day, poll time 20 seconds)
- High contrast display allows scanning of bar codes off the display using a standard barcode laser scanner
- Display can be remotely updated via bidirectional communication using a 2.4 GHz wireless network (IEEE 802.15.4)
- Key metrics: 4.4", 400 x 300 dots (WxH), black and white resolution, 10:1 contrast ratio and 113 DPI
- Dimensions (WxHxD): 4.19 x 3.58 x 0.72 in and weight: 3.7 ounces (including batteries)
- A wide variety of secure, durable and esthetically pleasing display shelf mounting options and accessories for in-store shelving are available

EE-440

Product Specifications

OPERATION

CPU: CC2530-F128, 8051 core 8-bit MCU

CLOCK FREQUENCY: 32 MHz

MEMORY

INTERNAL ROM: 128 kB

INTERNAL RAM: 8 kB

DISPLAY

SIZE: 4.4", 400 x 300 dots (WxH), black and white

ACTIVE AREA: 89.6 x 67.2 mm (WxH)

CONTRAST RATIO: 10:1

PIXEL PITCH: 113 dpi

COMMUNICATION

RADIO FREQUENCY: 2.4GHz (2405-2480 MHz)

RADIO TRANSMISSION SPEED: up to 250 kbps

PROTOCOL: IEEE 802.15.4 based

NUMBER OF EE-440'S PER BASE STATION: 500

POWER

BATTERY: 2x Alkaline AAA

OPERATING VOLTAGE: 3.0 V

USABLE TIME: 3 years at room temperature (update frequency: 4 times per day, poll time 20 seconds)

DURABILITY

TEMPERATURE:

Operation: 50 to 122 °F (10 to 50 °C)

Storage: -4 to 140 °F (-20 to 60 °C)

HUMIDITY:

Operation: 20 - 85% (noncondensing)

Storage: 20 - 85% (non-condensing)

PHYSICAL

DIMENSIONS (WXHxD): 4.19 x 3.58 x 0.72 in
(106.52 x 90.86 x 18.20 mm)

WEIGHT: Ca. 3.7 oz (104 g) (incl. batteries)

REGULATORY AND SAFETY

PRODUCT COMPLIANCE: FCC, RoHS, EN60950-1, IEC 60950-1, EN 55022, EN 55024

