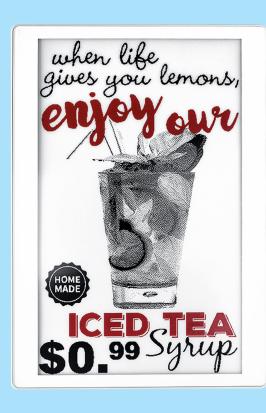# EE-750R

7.5 Inch E-Paper Display

Highlights

• 7.5 Inch e-paper display

• 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: 5 years at room temperature (two internal AAA batteries, update frequency: 2 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: 7.5 inch, 640 x 384 pixels (WxH), black, white and red resolution, 8:1 contrast ratio and 100 DPI

• Dimensions: 7.09" x 4.96" x 0.63" (WxHxD) and weight: 7.34 ounces (including batteries)

• A wide variety of secure, durable and esthetically pleasing display shelf mounting options and accessories for in-store shelving are available

≡ OPTICON

EE-750R

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 meters indoor; 100 meters open-field

COMMUNICATION

RADIO FREQUENCY: 2.4 GHz (2405 - 2480 MHz)

RADIO TRANSMISSION SPEED: up to 250 kbps

PROTOCOL: IEEE 802.15.4 based

NUMBER OF EE-750R ESL'S PER BASE STATION: 1,000

UPDATES PER HOUR: Up to 900 labels

POWER

BATTERY: 4x Alkaline AAA

OPERATING VOLTAGE: 3.0V

USABLE TIME: 5 years at room temperature (update frequency: 2 times per day with 20 seconds poll time)

DISPLAY

SIZE: 7.5", 640 x 384 pixels (WxH), black, white, red

ACTIVE AREA: 163.20 x 97.92 mm (WxH)

CONTRAST RATIO: 8:1

PIXEL PITCH: 100 dpi

DURABILITY

TEMPERATURE:
Operation: 41 to 104 °F (5 to 40 °C)
Storage: -4 to 140 °F (-20 to 60 °C)

HUMIDITY:
Operation: 20 - 60% (non-condensing)
Storage: 20 - 60% (non-condensing)

PHYSICAL

DIMENSIONS (WXHXD): 7.09" x 4.96" x 0.63" (180 x 126 x 16 mm)

WEIGHT: 7.34 ounces (208 grams)

REGULATORY AND SAFETY

PRODUCT COMPLIANCE: CE, FCC, RoHS, EN60950-1, IEC60950-1, EN55022, EN55024

ACCESSORIES

Various mounting options are available, refer to Accessories for Opticon EE Range ESL brochure for details