

PE-152

1.5 Inch Powered 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
- Incorporates RGB LEDs and sound feedback to attract attention and to support dynamic customer interactions and pick-to-display solutions
- Externally powered via powered rail eliminates the need for batteries while allowing unlimited display updates and programmed LEDs
- Integrated NFC reader offers a convenient, secure interface to various payment methods and loyalty cards
- High contrast display allows scanning of barcodes off the display using a standard barcode scanner
- Bi-stable display allows the image to remain on the display even after the power is disconnected
- Extremely low power consumption
- Enables on-demand, real-time pricing, promotions and product information while reducing waste and labor costs and minimizing errors
- Display can be remotely updated via bidirectional communication using a 2.4 GHz wireless network (IEEE 802.15.4)
- Key metrics: 1.54 inch, 152 x 152 pixels (WxH), black and white resolution, 8:1 contrast ratio and 140 DPI
- Dimensions: 1.9" x 1.66" x 0.4" (WxHxD) and weight: 1.01 ounces

PE-152

Product Specifications

OPERATION

CPU: 8-bit MCU
CLOCK FREQUENCY: 32 MHz

MEMORY

INTERNAL ROM: 256 KB
INTERNAL RAM: 8 KB

OPERATING INDICATORS

NUMBER OF LEDS: 4
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
NUMBER OF PE-152 ESL'S PER BASE STATION: 1,500

POWER

POWER SUPPLY: Dedicated power rail, 5-12V
POWER CONSUMPTION: 0.68W per ESL (max.)

DISPLAY

SIZE: 1.54 in, 152 x 152 pixels (WxH), black and white
ACTIVE AREA: 27.51 x 27.51 mm (WxH)
PIXEL PITCH: 140 dpi

NFC

FREQUENCY: 13.56 MHz
PROTOCOLS: ISO/IEC 14443A/MIFARE/NTAG

DURABILITY

TEMPERATURE:
Operation: 32 to 104 °F (0 to 40 °C)
Storage: -4 to 140 °F (-20 to 60 °C)
HUMIDITY:
Operation: 20 - 85% (non-condensing)
Humidity: 20 - 85% (non-condensing)

PHYSICAL

DIMENSIONS (WXHXD): 1.9 x 1.66 x 0.4 in
(48.4 x 42.2 x 10.2 mm)

MOUNTED ON THE DEDICATED POWER RAIL:
12.1 mm thickness

WEIGHT: Ca. 1.01 oz (30 g)

REGULATORY AND SAFETY

PRODUCT COMPLIANCE: FCC, RoHS, EN 60950-1, IEC 60950-1, EN55022, EN55024, WEEE



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