

PE-152 NFC

1.5 inch E-paper + NFC + LED

The PE-152 is the next generation powered ESL with a high resolution fully graphical, e-paper based display and integrated NFC and LED. Perfect for dynamic customer interaction in stores and for payment purposes.



Highlights

- Enables on-demand, real-time pricing, promotions and product information
- Reduces waste and labor costs and minimizes errors
- Integrated NFC chip allowing various payment methods
- Incorporates RGB LEDs and sound feedback to attract attention
- Externally powered via rail system
- 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



PE-152 NFC

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

No. 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", 152 x 152 pixels (WxH), black and white

Active area: 27.51 x 27.51 mm (WxH)

Pixel Pitch: 140 dpi

NFC

Frequency: 13.56MHz

Protocols: ISO/IEC 14443A/MIFARE/NTAG

Durability

Temperature in operation: 0 to 40 °C / 32 to 104 °F

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

Humidity in operation: 20 - 85% (non-condensing)

Humidity in storage: 20 - 85% (non-condensing)

Physical

Dimensions (WxHxD): 48.4 x 42.2 x 10.2 mm /

1.9 x 1.66 x 0.4 in

Mounted on the dedicated power rail: 12.1 mm thickness

Weight: Ca. 30 g / 1.01 oz

Regulatory & Safety

Product compliance: FCC, RoHS, EN 60950-1, IEC 60950-1, EN55022, EN55024, WEEE