☰ OPTICON

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, for more information, check the accessories brochure of the PE-range
- 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
Max operating current: max 57mA at 12V per label

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. 15 g / 0.53 oz

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

Accessories
For dedicated and universal accessories, check online
the Accessories brochure of the PE-Range.

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