

EE-201

2 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—7 years at room temperature (two internal 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: 2", 200 x 96 dots (WxH), black and white resolution, 10:1 contrast ratio and 111 DPI
- Dimensions: 2.56 x 1.34 x 0.59 in (WxHxD) and weight: 1.4 ounces
- IP54 rating against dust and moisture, survives 6' drop to concrete
- A wide variety of secure, durable and esthetically pleasing display shelf mounting options and accessories for in-store shelving are available

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Product Specifications

OPERATION

CPU: CC253-F96, 8051 core 8-bit MCU

CLOCK FREQUENCY: 32 MHz

MEMORY

INTERNAL ROM: 96 kB

INTERNAL RAM: 6 kB

OPERATING INDICATORS

RANGE: 25 meter indoor; 100 meter open-field

ENCRYPTION: None (default); 256-bit AES encryption (on request)

DISPLAY

SIZE: 2", 200 x 96 dots (WxH), black and white

ACTIVE AREA: 45 x 22 mm (WxH)

CONTRAST RATIO: 10:1

PIXEL PITCH: 111 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-201'S PER BASE STATION: 2500

POWER

BATTERY: 2x CR2450

OPERATING VOLTAGE: 2.0 - 3.3 V

NOMINAL VOLTAGE: 3.0 V

USABLE TIME: 7 years at room temperature (update frequency: 4 times per day, poll time 20 seconds)

DURABILITY

TEMPERATURE:

Operation: 41 to 122 °F (5 to 50 °C)

Storage: -4 to 140 °F (-20 to 60 °C)

HUMIDITY:

Operation: 20 - 85% (noncondensing)

Storage: 20 - 85% (non-condensing)

DROP TEST: 6 ft (1.8 m) drop onto concrete surface

PROTECTION RATE: IP 54

PHYSICAL

DIMENSIONS (WXHxD): 2.56 x 1.34 x 0.59 in
(65.0 x 34.0 x 15.0 mm)

WEIGHT: Ca. 1.4 oz (40 g) (incl. battery)

REGULATORY AND SAFETY

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

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