

# EE-440

## 4.4 inch E-paper Display

### HIGHLIGHTS

Extremely low power consumption

802.15.4 based protocol

3 years usable time

AAA batteries

2.4 GHz



# EE-440

## Basic product specifications

### OPERATION

**CPU:** CC2530-F128, 8051 core 8-bit MCU **CLOCK FREQUENCY:** 32 MHz

### MEMORY

**INTERNAL ROM:** 128 kB **INTERNAL RAM:** 8 kB

### OPERATING INDICATORS

**RANGE:** Typical 25 meter indoor; 100 meter open-field

### DISPLAY

**SIZE:** 4.4", 400 x 300 dots (WxH), black and white **ACTIVE AREA:** 89.6 x 67.2 mm (WxH) **CONTRAST RATIO:** 10:1 **PIXEL PITCH:** 113 dpi

### COMMUNICATION

**RADIO FREQUENCY:** 2.4GHz (2405-2480 MHz) **RADIO TRANSMISSION SPEED:** up to 250 kbps **PROTOCOL:** IEEE 802.15.4 based **NO. OF EE-440 ESL's PER BASE STATION:** 500

### POWER

**BATTERY:** 2x Alkaline AAA **OPERATING VOLTAGE:** 3.0 V **USABLE TIME:** 3 years at room temperature (update frequency: 4 times per day, poll time 20 seconds)

### DURABILITY

**TEMPERATURE IN OPERATION:** 10 to 50 °C / 50 to 122 °F **TEMPERATURE IN STORAGE:** -20 to 60 °C / -4 to 140 °F **HUMIDITY IN OPERATION:** 20 - 60% (non-condensing) **HUMIDITY IN STORAGE:** 20 - 60% (non-condensing)

### PHYSICAL

**DIMENSIONS (W x H x D):** 106.52 x 90.86 x 18.20 mm / 4.19 x 3.58 x 0.72 in  
**WEIGHT:** Ca.104 g / 3.7 oz (incl. batteries)

### REGULATORY & SAFETY

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

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