

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

