

# EE-150R

1.5 inch E-paper

## HIGHLIGHTS

Extremely low power consumption

802.15.4 based protocol

2.4 GHz

IP 54



# EE-150R

## Basic product specifications

### OPERATION

**CPU:** CC2533-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

### DISPLAY

**SIZE:** 1.54", 152 x 152 dots (wxh), black, white and red **ACTIVE AREA:** 27.51 x 27.51 mm (wxh) **CONTRAST RATIO:** 8:1 **PIXEL PITCH:** 140 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-150R**

**ESL'S PER BASE STATION:** 2500

### POWER

**BATTERY:** 1x CR2450 **OPERATING VOLTAGE:** 2.0 - 3.3 V **NOMINAL VOLTAGE:**

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

### DURABILITY

**TEMPERATURE IN OPERATION:** 5 to 40 °C / 41 to 104 °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)

**PROTECTION RATE:** IP 54

### PHYSICAL

**DIMENSIONS (W X H X D):** 45.5 x 39.9 x 14.9 mm / 1.79 x 1.75 x 0.59 in

**WEIGHT:** Ca. 22.3 g / 1.1 oz (incl. battery)

### REGULATORY & SAFETY

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

EN 55024, CE, REACH

