# **EE-290**

## 2.9 inch E-paper Display

#### **HIGHLIGHTS**

Extremely low power consumption 802.15.4 based protocol 2.4 GHz IP 54





### **EE-290**

### **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: 2.9",  $296 \times 128$  dots (WxH), black, white and red ACTIVE AREA:  $67 \times 29$  mm (WxH) CONTRAST RATIO: 8:1 PIXEL PITCH: 112 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-290 ESL'S PER BASE STATION: 1500

#### **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), 5 years for red ESL

#### **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

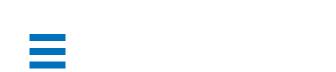
#### **PHYSICAL**

DIMENSIONS (W X H X D):  $88.0 \times 45.0 \times 15.2 \text{ mm} / 3.46 \times 1.77 \times 0.6 \text{ in}$ WEIGHT: Ca. 48 g / 1.6 oz (incl. battery)

#### REGULATORY & SAFETY

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

Authorised Australian & New Zealand Distributor: Goodson Imports Pty Ltd 142 Wicks Road Macquarie Park NSW 2113 Offices in all main States and New Zealand Ph: 02-8875 4544 Fax 02-8875 4588 www.goodson.com.au



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