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 x 128 dots (WxH), black, white and red ACTIVE AREA: 67 x 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 x 45.0 x 15.2 mm / 3.46 x 1.77 x 0.6 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

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