

English

Hardware and Safety Operating Guide

Universal Wireless IEEE 802.15.4 Sensor Board. Model S2

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CE 0700



1. Safety Precautions

CAUTION RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

NOTE 1. BATTERY MAX TEMP. MUST BE RATED +70C OR HIGHER.
NOTE 2. REMOVE CR2450 BATTERY IF OTHER POWER SOURCES ARE USED.

Operating Temperature: -25C to +60C

2. Introduction

The Universal IEEE 802.14.4 Node/board. Model S2. named "the board". The board is intended to be a generic IEEE 802.15.4 communication module to be used with different applications and purposes. It's recommended to keep the board in an enclosure to prevent damages from statical electricity, wear, water, dust etc.

3. Power Requirements

The board can be powered via the 2-pin DC-connector, USB-TTL cable or a via 3V CR2450 battery. To conform to approval regulations of the limited power source (LPS) the following conditions must be met:

- For on board 2 pins PCB input, 3-25V input with max 4A input current
 - For on board 6 pins PCB input, 5V input with max 1.5A input current
- (For 3V CR2450, the maximum available power itself)

3.1 TTL-USB cable

Use FTDI (www.ftdichip.com) TTL-232R-3V3 – CABLE. Manufacturer Part No: TTL-232R-3V3

Farnell reference:

<http://uk.farnell.com/ftdi/ttl-232r-3v3/cable-usb-to-ttl-level-serial-conv/dp/1329311>

Disconnect the 6-pin connector from the PCB when USB is not connected.

4. For full product information

For updated and full product information, including guides, tips, programming and software options, HOWTO's etc. Visit product home page: WWW.Radio-Sensors.COM

5. Contact information

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