



This is the best battery-backed real time clock (RTC) you can get that allows your Raspberry Pi project to keep track of time if the power is lost. Perfect for data-logging, clock-building, NTP servers, time-stamping, timers and alarms, etc. Equipped with a genuine DS3231 RTC, it works great with the Raspberry Pi and has native kernel support.

The DS3231 is an extremely accurate I<sup>2</sup>C-Integrated RTC/TCXO/Crystal.

Most RTCs use an external 32kHz timing crystal that is used to keep time with low current draw, but those crystals have slight drift, particularly when the temperature changes (the temperature changes the oscillation frequency very slightly). This RTC is in a thick package because the crystal is inside the chip! And right next to the integrated crystal is a temperature sensor. That sensor compensates for the frequency changes by adding or removing clock ticks so that the timekeeping stays on schedule.

Works perfectly with any Raspberry Pi (or similar single board linux computer) including the Pi 1, Pi 2, Pi 3, Pi 4, Pi Zero, A+, B+ etc.

- Fully assembled & tested PCB plugs directly into your Pi's GPIO pins – No soldering required!
- Will keep time for 5 years or more

Note: This product does not come with a CR1220 coin cell battery.

Product Dimensions: 21.3mm x 20.0mm x 13.6mm / 0.8" x 0.8" x 0.5"

Product Weight: 2.7g / 0.1oz