## 35808-MP **RTC Plug In Board**

Inexpensive add-on 'Real Time Clock' or RTC board plugs on the Pi's GPIO pins and contains a clock chip and a battery that tell the Raspberry Pi what time it is. The board uses the <u>I2C</u> protocol to communicate with the Raspberry Pi (or other microcontroller). Uses the DS3231 chip. Clock calendar function includes seconds, minutes, hours, weeks, days, months and years, and provides leap year compensation valid until 2100. NOTE: Requires Programming to enable functionality. 12/24 Format with AM/PM indication **Dual Day Alarm Clocks** Interface: 400KHz I2C serial Power: 3.3 or 5V Accuracy: ±5ppm (±0.432 sec/day) from -40°C to +85°C On board battery to maintain timing. Digital temperature sensor with ±3°C accuracy Install on pins 1, 3, 5, 7, 9 of the Pi GPIO Connection; 5 Pin 0.1 Pitch Header Socket 1Hz and 32.768kHz output Operating Range: -40 ° C to +85 ° C **L:** ~1/2" **W:** 9/16" **T:** 1/2"

## **RASPBERRY-PI CONNECTION**

Shut down the Pi, never plug into the GPIO while system is running or powered.

Plug the board onto your Raspberry Pi GPIO pins on the inside corner with the RTC board pointing inwards, as shown.

**WT:** .02

## **USEFUL LINKS** For set up/Programming

http://www.elecrow.com/download/Arduino%20demo%20code.zip https://www.raspberrypi.org/forums/viewtopic.php?t=161133 https://www.raspberrypi.org/forums/viewtopic.php?f=63&t=161133 https://thepihut.com/blogs/raspberry-pi-tutorials/17209332-adding-a-real-time-clock-to-your-raspberry-pi https://www.factoryforward.com/adding-rtc-module-raspberry-pi-real-time-clock/ https://www.youtube.com/watch?v=MthLLRNAGLs

Information including Drawings, Schematics, Links and Code (Software) Supplied or Referenced in this Document is supplied by MPJA inc. as a service to our customers and accuracy or usefulness is not guaranteed nor is it an Endorsement of any particular part, supplier or manufacturer. Use of information and suitability for any application is at users own discretion and user assumes all risk.

Information Subject to Change Without Notice All rights are retained by the respective Owners/Author(s)

MARLIN P. JONES & ASSOC., INC. P.O. Box 530400 Lake Park, FI 33403 800-652-6733 FAX 561-844-8764 WWW.MPJA.COM



