

\*\*\*\* RTC ->SecondCounter AddOn for Controller version 3.0C ONLY \*\*\*\*

(latest version 3.1C of this board already has this added and routed)

This modification is a simple 1-wire addition that adds the RTC Clock to a second input on the STM32, a previously un-used pin PE5. This allows the RTC Clock to be used as an input clock for an unused timer.

This unused timer can now be used as a simple 'seconds' counter, that can be used/reset/etc, without disrupting the main RTC clock. This way we can have a usable RTC clock for displaying real time of day, etc, and never have it reset.

Currently there is NO battery backup for the RTC clock/circuitry, but this may be do-able in the near future so that the oven could have a non-volatile & forever running clock/calendar.

- 1) You only need to solder ONE jumper wire from the RTC clock output to the unused pin 'PE5' pad which is in the spot as show in the picture. PE5 is closest to the STM32 processor, right behind PE4 and next to PE6.

