

PC3860M1: Modifications

1. Add a 4K7 pull-up resistor from pin 1 of U20, 21, 22, 23, 24, 25, 26, 27 because the output of the comparators is open collector.
2. Lift pin 5 of U76 and connect pin 1 to the pad (or nearest point of ease) of U76 to bypass the latch as it is not needed (causes false triggers).
3. Lift pin 5 of U77 and connect pin 1 to the pad (or nearest point of ease) of U77 to bypass the latch as it is not needed (causes false triggers).
4. Carefully lift pins 23 and 24 of U83 and connect them to pin 1 of U83. While this device is tolerant of 5V it is not designed to run at 5V so doing so could cause premature failure. LEDs are happy to see data at 3V3.
5. Carefully lift pins 23 and 24 of U84 and connect them to pin 1 of U84. While this device is tolerant of 5V it is not designed to run at 5V so doing so could cause premature failure. LEDs are happy to see data at 3V3.
6. Cut tracks coming from pins 2 and 3 of U80 (Rx and Tx) and link pin 2 to pin15 of U81 (connect Rx of TEENSY to Tx of ESP32).
7. Cut tracks coming from pins 2 and 3 of U82 (Rx and Tx) and link pin 2 to pin15 of U81 (connect Rx of TEENSY to Tx of ESP32).
8. Remove R67 through R74. These were feedback resistors designed to give some hysteresis to the event comparator but this can recharge the peak hold capacitor.