## **OPENA3XX DIGITAL HARDWARE CONTROLLER BOARD V0.1 - Unreleased**

Source Repo: https://www.github.com/opena3xx Development Site: https://opena3xx.dev Latest Update: 11/04/2021 VCC Δ External 5V Power 100n C7 C2 EXT-PWR C4 C6 C3 POWER LED INDICATOR 100n 100n 100n Pull-Up Resistors for I2C 100n R1 4.7k R2 4.7K Decoupling Caps for MCP23017 U1 U2 U3 BUS0\_1 BUS0\_2 VCC BUS0\_3 BUS0\_4 BUS0\_5 16 A0 A1 16 A1 A2 BUS1\_9 BUS1\_10 BUS1\_11 BUS1\_12 BUS1\_13 BUS1\_14 BUS1\_15 BUS2\_9 BUS2\_10 BUS2\_11 BUS2\_12 BUS0\_9 BUS0\_12 BUS0\_13 BUS0\_14 BUS3\_12 BUS3\_13 BUS3\_14 INTA 19 INTA 19 EVENT MESSAGING LED BUS-3 BUS-1 BUS-0 BUS1\_0 BUS1\_1 BUS1\_2 BUS1\_3 BUS1\_4 BUS1\_5 BUS1\_6 BUS1\_7 BUS2\_15 BUS2\_14 BUS2\_13 BUS2\_12 BUS2\_11 BUS2\_10 BUS2\_9 BUS2\_8 BUS0\_0 BUS0\_1 BUS0\_2 BUS0\_3 BUS0\_4 BUS0\_5 BUS0\_6 BUS0\_7 BUS0\_15 BUS0\_14 BUS0\_13 BUS0\_12 BUS0\_11 BUS0\_10 BUS0\_9 BUS0\_8 BUS1\_15 BUS1\_14 BUS1\_13 BUS1\_12 BUS1\_11 BUS1\_10 BUS1\_9 BUS1\_8 BUS3\_15 BUS3\_14 BUS3\_13 BUS3\_12 BUS3\_11 BUS3\_10 BUS3\_9 BUS3\_8 BUS2\_0 BUS2\_1 BUS2\_2 BUS2\_3 BUS2\_4 BUS2\_5 BUS2\_6 BUS2\_7 BUS3\_0 BUS3\_1 BUS3\_2 BUS3\_3 BUS3\_4 BUS3\_5 BUS3\_6 BUS3\_7 FAULT LED U6 BUS5\_0 BUS5\_1 BUS5\_2 BUS5\_3 BUS5\_4 BUS5\_5 BUS5\_6 BUS4\_0 BUS4\_1 BUS4\_2 BUS4\_3 BUS4\_4 BUS4\_5 BUS4\_6 BUS4\_7 BUS7\_1 BUS7\_2 BUS7\_3 BUS7\_4 BUS7\_5 BUS7\_6 BUS7\_7 BUS6\_1 BUS6\_2 BUS6\_3 BUS6\_5 BUS5\_8 BUS5\_9 BUS5\_10 BUS5\_11 BUS5\_12 BUS5\_13 BUS5\_14 BUS5\_15 BUS6\_9 BUS6\_10 BUS6\_11 BUS6\_12 BUS7\_9 BUS7\_10 BUS7\_11 BUS7\_12 BUS4\_9 BUS4\_10 BUS4\_11 BUS4\_12 BUS4\_13 BUS4\_14 BUS7\_13 BUS7\_14 INTA 19 INTA 19 INTA 20 19 BUS-6 BUS-4 BUS-5 BUS-7 BUS4\_0 BUS4\_1 BUS4\_2 BUS4\_3 BUS4\_4 BUS4\_5 BUS4\_6 BUS4\_15 BUS4\_14 BUS4\_13 BUS4\_12 BUS4\_11 BUS4\_10 BUS4\_9 BUS4\_8 BUS5\_15 BUS5\_14 BUS5\_13 BUS5\_12 BUS5\_11 BUS5\_10 BUS5\_9 BUS6\_0 BUS6\_1 BUS6\_2 BUS6\_3 BUS6\_4 BUS6\_5 BUS6\_6 BUS6\_7 BUS7\_0 BUS7\_1 BUS7\_2 BUS7\_3 BUS7\_4 BUS7\_5 BUS7\_6 BUS7\_15 BUS7\_14 BUS7\_13 BUS7\_12 BUS7\_11 BUS5\_0 BUS5\_1 BUS5\_2 BUS5\_3 BUS5\_4 BUS5\_5 BUS5\_6 BUS5\_7 BUS6\_14 BUS6\_13 BUS6\_12 BUS6\_11 BUS6\_10 BUS6\_9 BUS7\_10 BUS7\_9