

D2 and D10 are reserved for USB and CAN communication.
D4 and D5 are reserved for I2C communication to irradiance. temperature sensors. U201 O TP203 MCU\_Nucleo\_L432KC +12V PWR\_FLAG SW201  $\Diamond$ 12V TP Heartbeat J201 PWR\_FLAG \_\_\_ C201 SW\_Push Tracking GND RST 028 Reset 100nF 1935776 Reset 3 O RST NO\_2 4 GND —○ TP201 Pin Names) **‡** COM\_2 +5٧ TP205 5V TP D2 Α7 A6 25 CIBATT\_V GND GND MCU TP Error D3 A6 23 GBATT\_V A5 23 GBATT\_I A4 22 GARR\_I A3 QARR\_V A2 1 GPWM\_EN A1 19 GPWM A0 40 13 TV 12C1\_SDA × 7 12C1\_SCL 28 D5 (Arduino J202 Tracking Heartbeat BNC AREF 19 +3.3V 17 +3.3V PWM\_CTRL MH1 Q TP202 MH2 O TP204 3.3V TP +3٧3 D13 16 X D201 D202 D203
RED YELLOW BLUE → TestPoint\_2Pole GND GND GND GND Jacob Pustilnik Matthew Yu **UT LHR Solar** Sheet: File: controller.kicad\_sch Title: Sunscatter MPPT Size: A4 Date: 2023-03-26 Rev: v0.1.1 KiCad E.D.A. kicad 7.0.1-3b83917a11~172~ubuntu22.04.1 ld: 2/5





