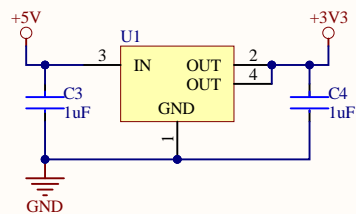
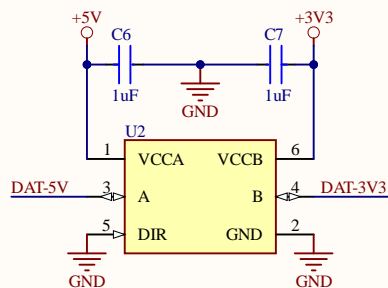


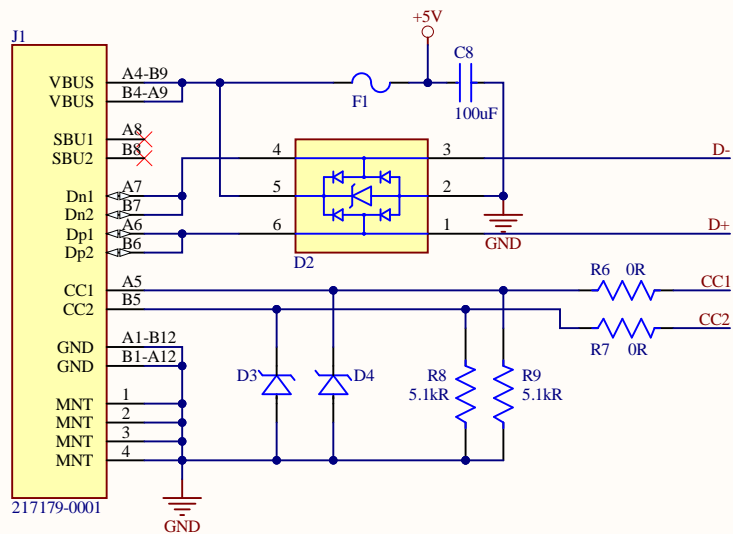
Voltage Regulator



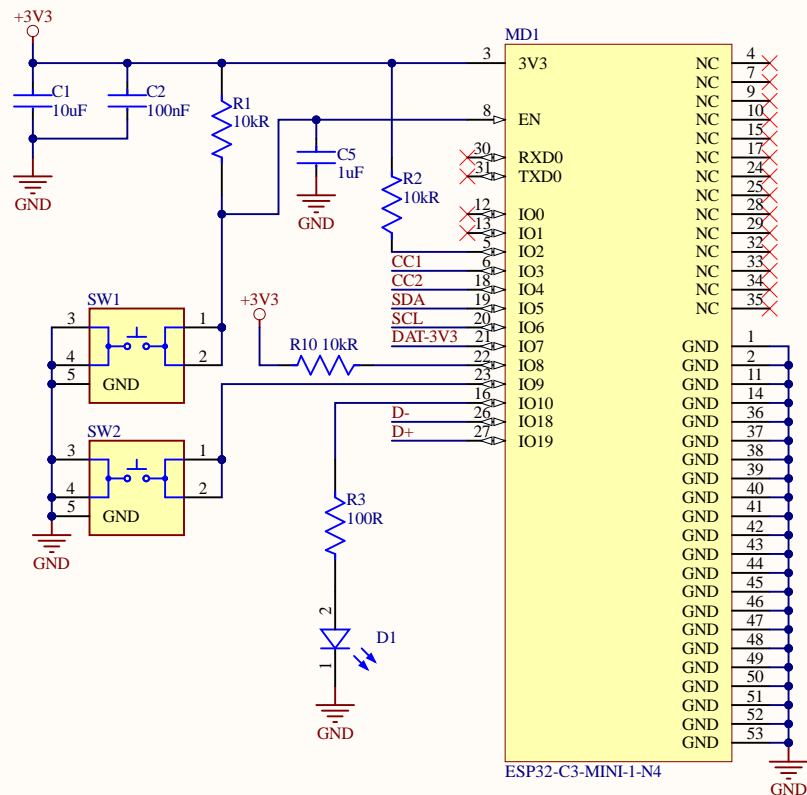
Level Shifter



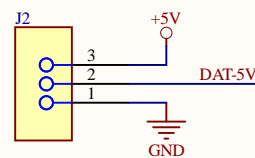
USB Type-C (JTAG/Power)



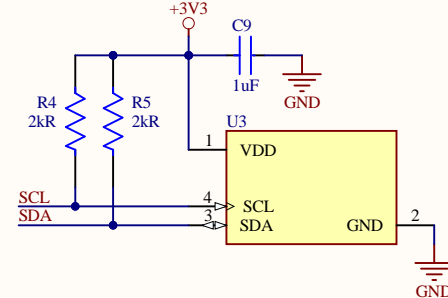
ESP32-C3-Mini



Header



Ambient Light Sensor



Title

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Revision

Date: 3/17/2025

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Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
CL21A106KQNNNE	CL21 Series 0805 10uF 16V ±10% Tolerance X5R Multilayer Ceramic Chip Capacitor	C1	FP-CL21-IPC_B	CMP-2000-06102-2	1
CL05B104KA5NNNC	Cap Ceramic 100nF 25V X7R ±10% SMD 0402 +125°C Paper T/R	C2	FP-CL830-IPC_C	CMP-13271-001643-1	1
CL10B105K08NNNC	CAP CER 1UF 16V X7R 0603	C3, C4, C5, C6, C7, C9	FP- CL10B105K08NNNC- MFG	CMP-2000-06093-2	6
GRM31CR60J107MEA 8K	Chip Multilayer Ceramic Capacitors for General Purpose, 1206, 100uF, X5R, 15%, 20%, 6.3V	C8	FP-GRM31C-0.3- e0.3_0.8-MFG	CMP-06035-034850-1	1
150060BS5040	Single Color LED	D1	WL-SMCD_0603	CMP-007-00036-6	1
USBLC6-2SC6	No Description Available	D2	SOT23-6L_STM	CMP-011-000000-3	1
ESD321DYAR	USB 2.0 TVS diode, 0.9 pF, 30kV air/contact	D3, D4	SOT5x3_DYA_TEX	CMP-006-000000-6	2
0ZCG0300FF2B	PTC Fuse 6V 3A hold 5A trip	F1	0ZCG_BEL	CMP-005-00013-3	1
217179-0001	USB Connector, 16 Contact(s), Female, Right Angle, Surface Mount Terminal, Locking, Receptacle	J1	FP-2171790001-MFG	CMP-002-00072-4	1
ESP32-C3-MINI-1-N4	Multiprotocol Modules SMD module, ESP32- C3FN4, PCB antenna, - 40 C +85 C	MD1	FP-ESP32-C3-MINI-1- N4-MFG	CMP-020-00023-3	1
ERJ-2RKf1002X	Fixed Resistor, Metal Glaze/thick Film, 0.1W, 1000ohm, 50V, 1% +/- Tol, 100ppm/Cel, Surface Mount, 0402	R1, R2, R10	RESC1005X40X25LL05 T05	CMP-009-00177-1, CMP-009-00177-2	3
RC0402JR-07100RL	Fixed Resistor, Metal Glaze/thick Film, 0.0625W, 100ohm, 50V, 5% +/- Tol, 100ppm/Cel, Surface Mount, 0402	R3	RESC1005X40X25NL0 5T10	CMP-009-00183-2	1
ERJ-2RKf2001X	Fixed Resistor, Metal Glaze/thick Film, 0.1W, 2000ohm, 50V, 1% +/- Tol, 100ppm/Cel, Surface Mount, 0402	R4, R5	FP-ERJ2RK-MFG	CMP-009-00181-2	2
ERJ-2GE0R00X	Fixed Resistor, Metal Glaze/thick Film, 0.1W, 0ohm, Surface Mount, 0402	R6, R7	RESC1005X40X25LL05 T05	CMP-009-00178-1	2
ERJ-3BF5101V	RESSMD 5.1K OHM 1% 1/10W 0603	R8, R9	FP-ERJ3BK-MFG	CMP-2000-00540-8	2
KMR211GLFS	Tactile Pushbutton Switch with Grounding Pad, 0.05A @ 32V, SPST-NO, Off-Mom	SW1, SW2	KMR2xxG_CNK	CMP-011-00013-2	2
TLV1117LV33DCYR	Single Output LDO, 1 A, Fixed 3.3 V Output, 2 to 5.5 V Input, 4-pin SOT-223 (DCY), -40 to 125 degC, Green (RoHS & no Sb/Br)	U1	DCY0004A_N	CMP-0395-00503-2	1
SN74LVC1T45DBVR	IC TRNSLTR BIDIRECTIONAL SOT23-6	U2	FP-DBV0006A-IPC_B	CMP-0859-00206-4	1
LTR-329ALS-01	Open-drain, CMOS, 4 Pin, Unspecified	U3	FP-LTR-329ALS-01- MFG	CMP-031-00006-2	1