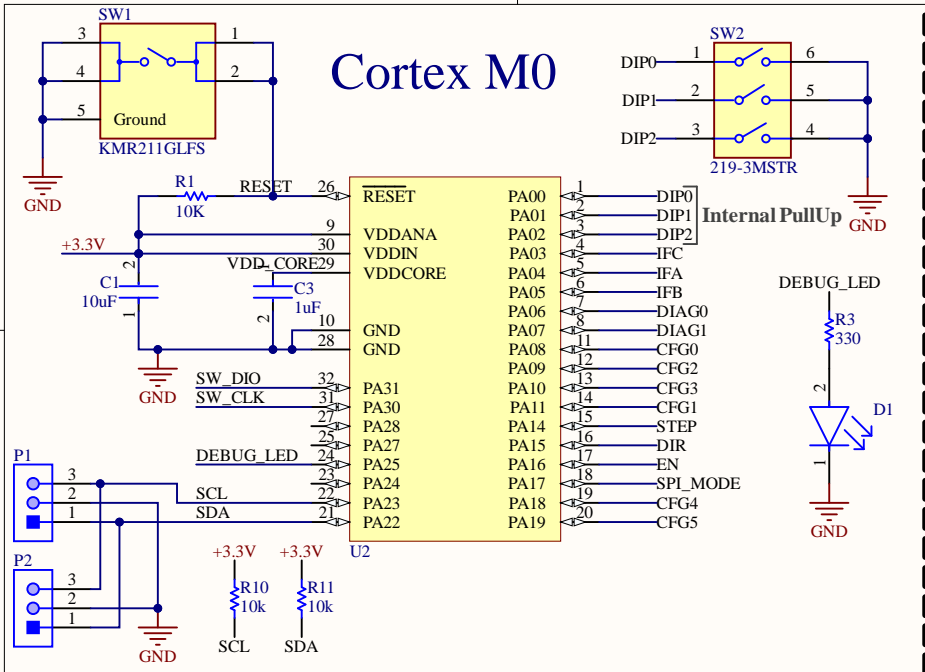
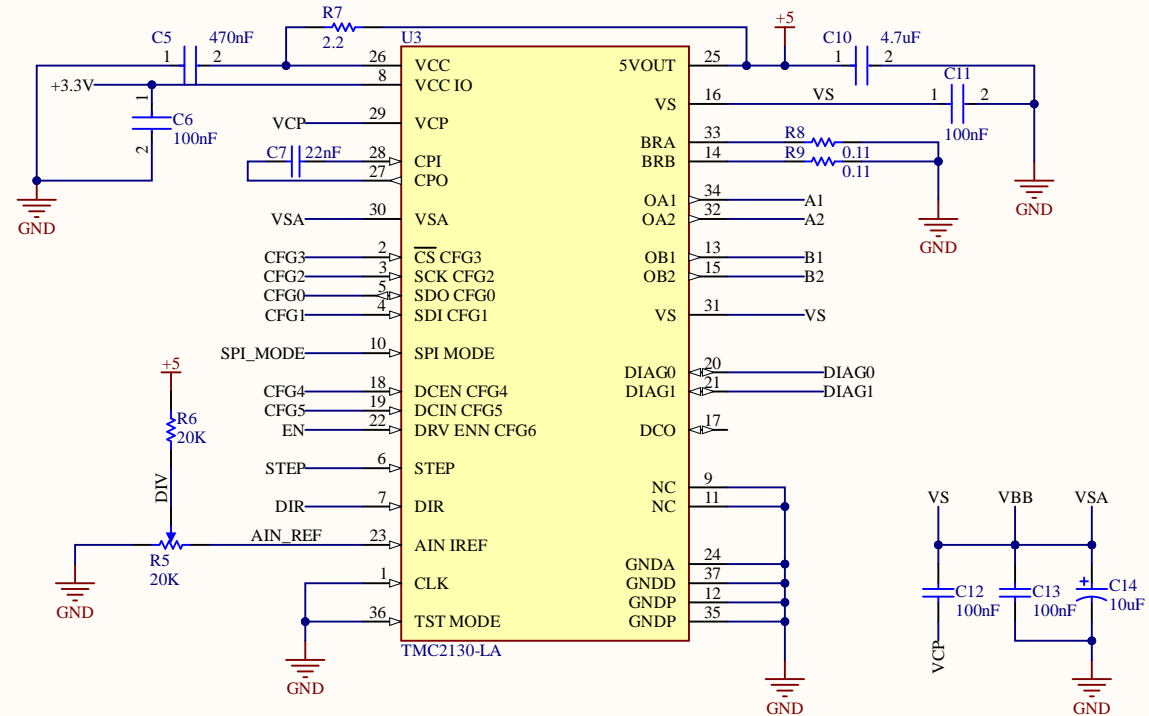


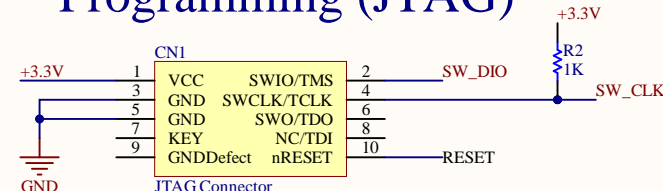
Cortex M0



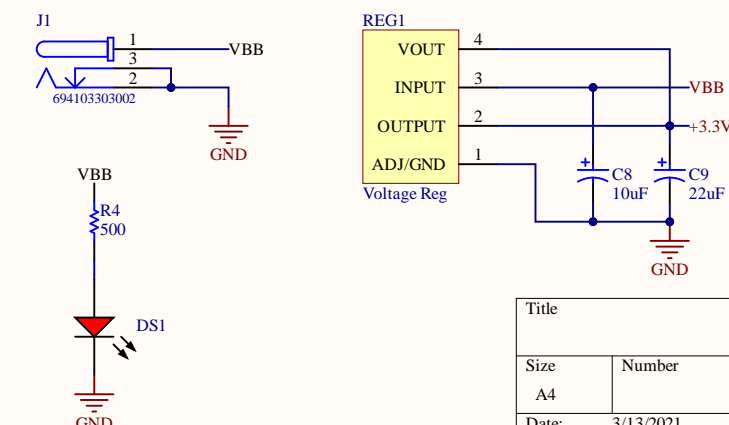
Trinamic Driver



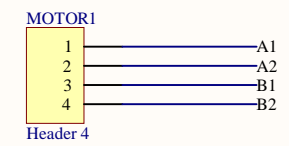
Programming (JTAG)



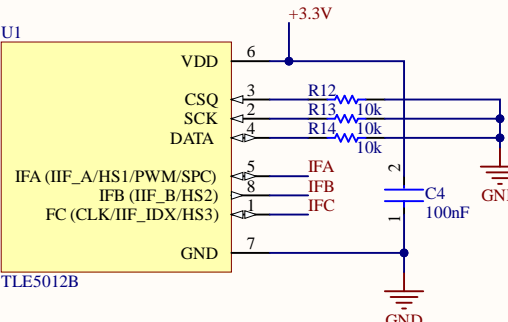
Power



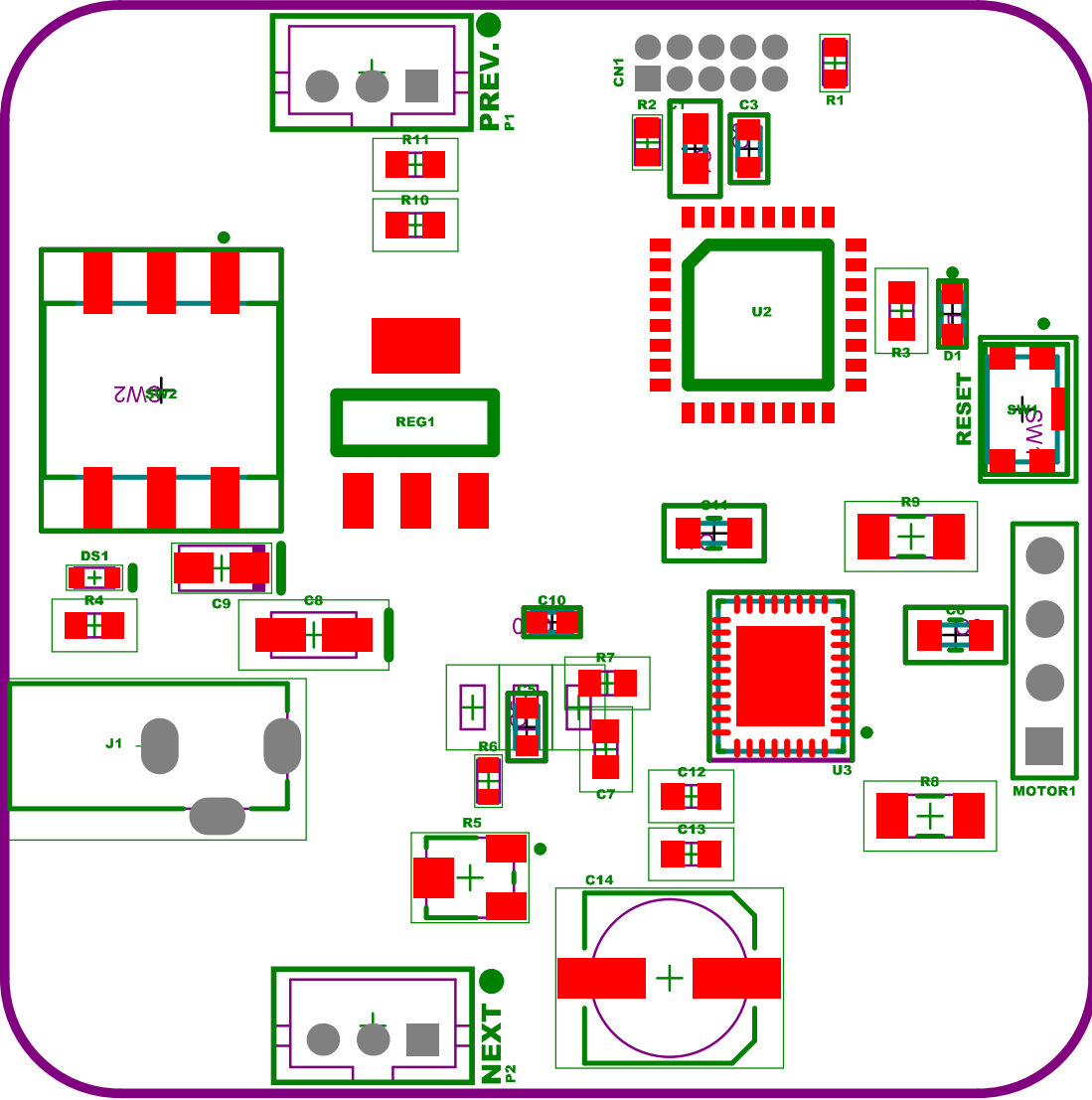
CXNs



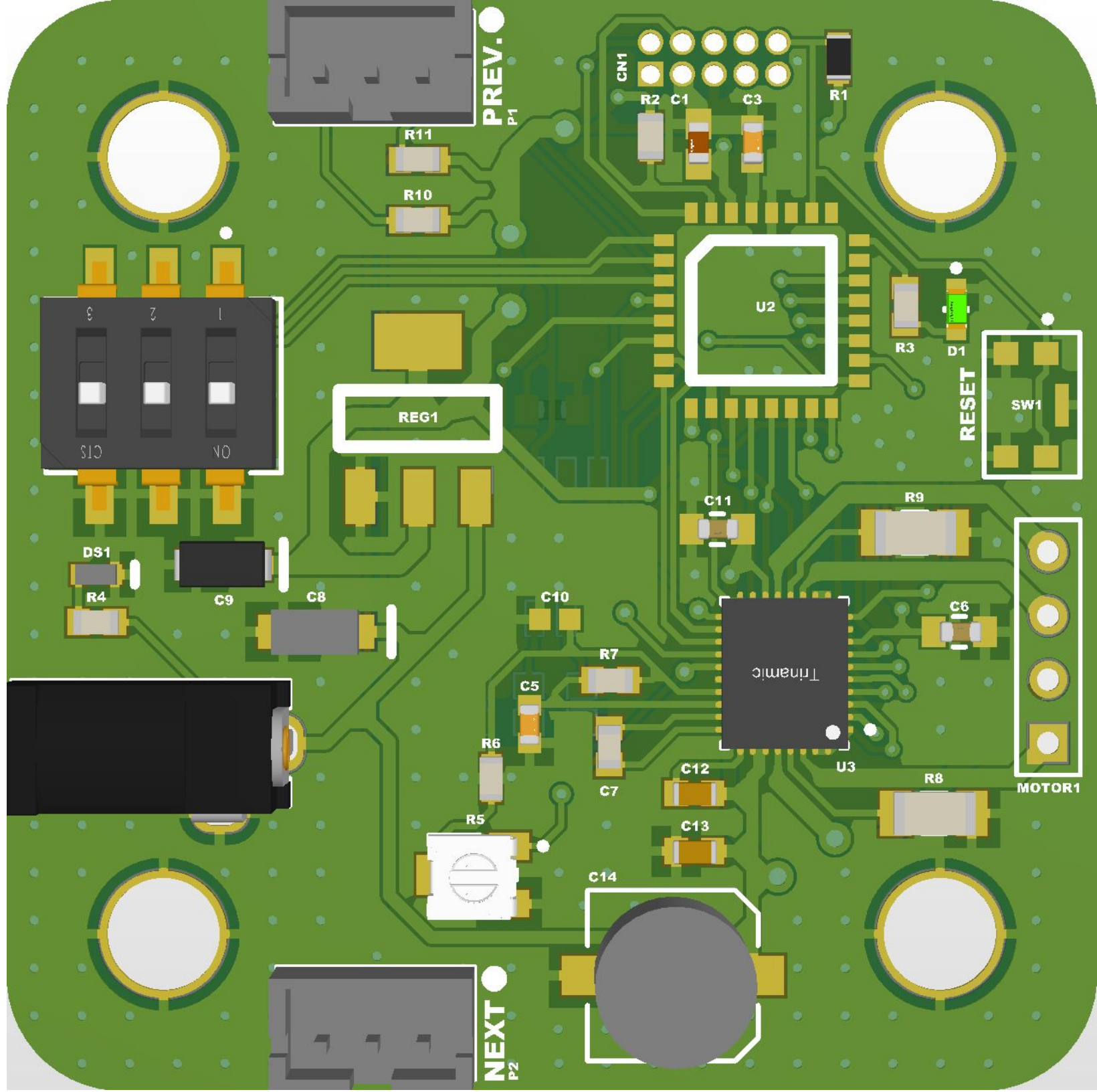
Encoder (IIF)



Title		
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A4		
Date:	3/13/2021	Sheet of
File:	C:\Users\...\SDP21_Daughter_Board_Schematic\SDP21_SchDoc	Drawn By







Name	Designator	Description	Quantity	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
GRM188R60J106ME47D	C1	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10uF, X5R, 15%, 20%, 6.3V	1	Murata	GRM188R60J106ME47D	Digi-Key	490-3896-6-ND
CC0603KRX7R7BB105	C3	CAP CER 1UF 16V X7R 0603	1	Yageo	CC0603KRX7R7BB105	Digi-Key	311-1446-6-ND
CGA3E2X7R1H104K080AA	C4	Cap Ceramic 100nF 50V X7R 10% Pad SMD 0603 +125°C Automotive T/R	1	TDK	CGA3E2X7R1H104K080AA	Digi-Key	445-5666-6-ND
CC0603KRX7R6BB474	C5	CAP CER 0.47UF 10V X7R 0603	1	Yageo	CC0603KRX7R6BB474	Digi-Key	311-1798-6-ND
CGA3E3X7S2A104K080AB	C6, C11	Cap Ceramic 100nF 100V X7S 10% Pad SMD 0603 +125°C Automotive T/R	2	TDK	CGA3E3X7S2A104K080AB		
GRM188R71H223KA01D	C7		1	Murata	GRM188R71H223KA01D		
T491A106K010AT	C8	Capacitor, Tantalum, 10 uF, +/- 10%, 10 V, -55 to 125 degC, 2-Pin SMD (1206), RoHS, Tape and Reel	1	KEMET	T491A106K010AT	Digi-Key	399-3684-6-ND
TAJA226K010RNJ	C9	Chip Capacitor, 22 uF, +/- 10%, 10 V, -55 to 125 degC, 1206 (3216 Metric), RoHS, Tape and Reel	1	Kyocera AVX	TAJA226K010RNJ	Digi-Key	478-1663-6-ND
GRM188R61E475KE11D	C10	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 4.7uF, X5R, 15%, 10%, 25V	1	Murata	GRM188R61E475KE11D	Digi-Key	490-7203-6-ND
GRM188R71H104KA93D	C12, C13	Chip Capacitor, 0.1 uF, +/- 10%, 50 V, -55 to 125 degC, 0603 (1608 Metric), RoHS, Tape and Reel	2	KEMET	C0603X104K5RAC3316	Digi-Key	399-C0603X104K5RAC3316DK R-ND
UUD1H100MCL1GS	C14	Aluminum Electrolytic Capacitor, UD Series, Low Impedance, 10 uF, 50 V, + / - 20%, -55 to 105 degC, Chip Type, 6.3 x 5.8 mm D x L, Pb-Free, Reel	1	Nichicon	UUD1H100MCL1GS	Digi-Key	493-2298-6-ND
JTAG Connector	CN1		1	Amphenol FCI	20021111-00010T4LF	Digi-Key	609-3712-ND
APT1608LZGCK	D1	LED GREEN CLEAR 2SMD	1	Kingbright	APT1608LZGCK	Digi-Key	754-1934-6-ND
TLMS1100-GS08	DS1	LED, RED, 2.1 V, -40 to 100 degC, 2-Pin SMD (0603), RoHS, Tape and Reel	1	Vishay	TLMS1100-GS08	Digi-Key	751-1182-1-ND
694103303002	J1	DC Power Jack Connector WR-DC, Male, Right Angled, THT, 2 A, 30 V	1	Würth Electronics	694103303002	Digi-Key	732-5925-ND
Header 4	MOTOR1	Header, 4-Pin	1				
B3B-PH-K-S(LF)(SN)	P1, P2	Male Header, Pitch 2 mm, 1 x 3 Position, Height 6 mm, Tail Length 3.4 mm, -25 to 85 degC, RoHS, Bulk	2	JST	B3B-PH-K-S(LF)(SN)		
ERJ3EKF1002V	R1	Chip Resistor, 10 KOhm, +/- 1%, 0.1 W, -55 to 155 degC, 0603 (1608 Metric), RoHS, Tape and Reel	1	Yageo	RC0603FR-0710KL	Digi-Key	311-10.0KHRDKR-ND
ERA3AEB102V	R2		1	Panasonic	ERA-3AEB102V	Digi-Key	P1.0KDBDKR-ND
ERJ-3RSJR10V	R3, R4, R7, R10, R11, R12, R13, R14		8	Panasonic	ERJ-3RSJR10V	Digi-Key	P.10AHDKR-ND
3313J-1-203E	R5	3 mm Trimpot(R) Trimming Potentiometer, 20 KOhm, +/- 20%, 0.125 W, -55 to 125 degC, 3-Pin SMD, RoHS, Tape and Reel	1	Bourns	3313J-1-203E	Digi-Key	3313J-203EDKR-ND
RC0603FR-0720KL	R6	Chip Resistor, 20 KOhm, +/- 1%, 0.1 W, -55 to 155 degC, 0603 (1608 Metric), RoHS, Tape and Reel	1	Yageo	RC0603FR-0720KL	Digi-Key	311-20.0KHRDKR-ND
RL1206FR-7W0R56L	R8, R9		2	Yageo	RL1206FR-7W0R56L	Digi-Key	311-.56LYDKR-ND
Voltage Reg	REG1		1				
KMR211GLFS	SW1	SWITCH TACTILE SPST-NO 0.05A 32V	1	ITT C&K	KMR211GLFS	Digi-Key	401-1426-6-ND
219-3MSTR	SW2	SWITCH SLIDE DIP SPST 100MA 20V	1	CTS	219-3MSTR	Digi-Key	CT3094DKR-ND
TLE5012B	U1	TLE5012B GMR-Based Angle Sensor PG-DSO-8	1				
ATSAMD21E15B-AUT	U2	IC MCU 32BIT 32KB FLASH 32QFP	1				
TMC2130-LA	U3	IC MTR DRV BIPOLAR 5.5-46V 36QFN	1	Trinamic	TMC2130-LA		