



catlin_rp2040_gerbbers_20230303

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Top Side Total 54 parts detected 53 Parts confirmed 1 parts to be confirmed

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Uploaded BOM Data			Review Matched Parts						
Top Designator	Comment	Footprint	Matched Part Detail	Qty	Source	Lib Type	Total Cost	Select	
U9	MAX77960x06	PowerIC:MAX7...	MAX77960EFV06+ C1020018 FC2QFN-30(4x4) Power Management Speci...	2	My Parts	Extended	\$0.00		
R9,R31,R47,R59,...	1K	Capacitor_SM...	0402WGF1001TCE C11702 62.5mW Thick Film Resistors 50V ±100ppm/...	12	JLCPCB	Basic	\$0.0060		
C34,C69,C70,C7...	22uF25VX7R	Capacitor_SM...	CL31A226KAHNNNE C12891 25V 22uF X5R ±10% 1206 Multilayer Cerami...	22	JLCPCB	Basic	\$1.1242		
C29,C35,C45,C4...	10uF35VX7R	Capacitor_SM...	CL31A106KBHNNNE C13585 50V 10uF X5R ±10% 1206 Multilayer Ceramic...	12	JLCPCB	Basic	\$0.3804		
U10	INA219BxD	Package_SO:S...	INA219AIDR C138706 SOIC-8_150mil Current-Sensing Amplifiers R...	2	JLCPCB	Extended	\$2.3320		
U7	TPH3R704PL	PowerIC:TRAN...	TPH3R704PL,L1Q C141553 40V 92A 81W 3.7mΩ@10V,46A 2.4V@200uA...	2	JLCPCB	Extended	\$1.6676		
L1	3.3uHDR127...	Inductor_SMD:...	SMMS1360-3R3M C149526 16A 3.3uH ±20% 5.5mΩ SMD Power Inductor...	2	JLCPCB	Extended	\$1.1096		
C28,C39,C40,C4...	10nF50VX7R	Capacitor_SM...	CL05B103KB5NNNC C15195 50V 10nF X7R ±10% 0402 Multilayer Cerami...	20	JLCPCB	Basic	\$0.0240		
C37,C38	220pF50VX7R	Capacitor_SM...	0402B221K500NT C1530 50V 220pF X7R ±10% 0402 Multilayer Cera...	4	JLCPCB	Basic	\$0.0044		
C25,C26,C58	33pF6VC0G	Capacitor_SM...	0402CG330J500NT C1562 50V 33pF C0G ±5% 0402 Multilayer Ceramic...	6	JLCPCB	Basic	\$0.0066		
C5,C17,C18,C19,C...	1uF50VX5R	Capacitor_SM...	CL10A105KB8NNNC C15849 50V 1uF X5R ±10% 0603 Multilayer Ceramic ...	14	JLCPCB	Basic	\$0.0700		
CONN1,CONN2	SM04B-SRS...	RP2040:JST_S...	SM04B-SRSS-TB(LF)(SN) C160404 1x4P 1 SR/SZ 1mm 4 Copper Alloy - Wire To ...	0	JLCPCB	Extended	\$0.00		
C55	47nF30VX7R	Capacitor_SM...	CL10B473KB8NNNC C1622 50V 47nF X7R ±10% 0603 Multilayer Cerami...	2	JLCPCB	Basic	\$0.0078		
J12	USB_C_Rece...	Connector_US...	TYPE-C-31-M-12 C165948 5A 1 16 Female Type-C SMD USB Connector...	2	JLCPCB	Extended	\$0.4282		
C8,C47,C48	220nF16VX7R	Capacitor_SM...	CL05B224KO5NNNC C16772 16V 220nF X7R ±10% 0402 Multilayer Ceram...	6	JLCPCB	Basic	\$0.0306		
U2	BMM150	Package_CSP:...	BMM150 C171681 WLCSP-12 Hall Sensor ROHS	2	JLCPCB	Extended	\$2.1878		
R87	0R	Resistor_SMD:...	1206W4F0000T5E C17888 250mW Thick Film Resistors 200V ±800ppm...	2	JLCPCB	Basic	\$0.0060		
C36,C52,C53,C5...	4.7uF16VX5R	Capacitor_SM...	CL10A475KO8NNNC C19666 16V 4.7uF X5R ±10% 0603 Multilayer Cerami...	10	JLCPCB	Basic	\$0.0910		
IC1	RP2040_QF...	RP2040:QFN5...	RP2040 C2040 264KB 12bit 30 ARM Cortex-M0 133MHz LQ...	2	JLCPCB	Extended	\$2.0844		
Q1,Q3,Q5,Q8	AO3400A	Package_TO_S...	AO3400A C20917 30V 5.7A 26.5mΩ@10V,5.7A 1.4W 1.5V@250u...	8	JLCPCB	Basic	\$0.6912		
SW3	CKPCM12SM...	Button_Switch...	PCM12SMTR C221841 SMD Slide Switches ROHS	2	JLCPCB	Extended	\$0.8840		
D1,D6,D8	D_Schottky	Diode_SMD:D_...	SS54 C22452 40V 550mV@5A 5A SMA(DO-214AC) Schott...	6	JLCPCB	Basic	\$0.2778		
R55,R56	226K	Capacitor_SM...	AC0402FR-07226KL C226354 62.5mW Thick Film Resistors 50V ±100ppm/...	30	JLCPCB	Extended	\$0.0390		
R39,R63,R75,R77...	8660	Capacitor_SM...	AC0402FR-078K66L C227261 62.5mW Thick Film Resistors 50V ±100ppm/...	30	JLCPCB	Extended	\$0.0300		
R4,R5,R6,R7,R8,...	330	Resistor_SMD:...	0603WAF3300T5E C23138 100mW Thick Film Resistors 75V ±100ppm/...	20	JLCPCB	Basic	\$0.0200		
R48,R52	10	Capacitor_SM...	0402WGF100JTCE C25077 62.5mW Thick Film Resistors 50V ±1% ±200...	4	JLCPCB	Basic	\$0.0020		
R11,R12,R13,R14,...	27R	Capacitor_SM...	0402WGF270JTCE C25100 62.5mW Thick Film Resistors 50V ±100ppm/...	30	JLCPCB	Extended	\$0.0150		
R2,R3,R27,R35,R...	10K	Capacitor_SM...	0402WGF1002TCE C25744 62.5mW Thick Film Resistors 50V ±100ppm/...	30	JLCPCB	Basic	\$0.0180		
R17,R24,R32,R34...	200K	Capacitor_SM...	0402WGF2003TCE C25764 62.5mW Thick Film Resistors 50V ±100ppm/...	20	JLCPCB	Basic	\$0.0100		
R45,R61	110K	Capacitor_SM...	0603WAF1103T5E C25805 100mW Thick Film Resistors 75V ±100ppm/...	4	JLCPCB	Basic	\$0.0040		
R1,R16,R20,R26,...	4K7	Capacitor_SM...	0402WGF4701TCE C25900 62.5mW Thick Film Resistors 50V ±100ppm/...	16	JLCPCB	Basic	\$0.0080		
R18,R19,R25,R33...	1M	Capacitor_SM...	0402WGF1004TCE C26083 62.5mW Thick Film Resistors 50V ±100ppm/...	10	JLCPCB	Basic	\$0.0050		
Q2,Q4,Q6,Q7	DMP3007SCG	Package_SON:...	DMP3007SCG-7 C260899 30V 50A 6.8mΩ@10V,11.5A 2.4W 3V@250uA...	8	JLCPCB	Extended	\$4.2880		
J9	Micro_SD_C...	Connector_Car...	TF-102-18 C266610 -25°C~+85°C 1.6mm Gold Deck MicroSD car...	2	JLCPCB	Extended	\$0.2208		
SW1,SW2	SW_SPST	Button_Switch...	TS-1095PS-A9B3-C3D2 C2834949 NO 6mm 8mm Gull Wing Black Round Button...	4	JLCPCB	Extended	\$0.2204		
U4	BMI160/BMI2...	Package_LGA:...	BMI270 C2836813 1.6mm 16Pin LGA-160 BMI160/BMI270	2	JLCPCB	Extended	\$3.7990		

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R41,R42,R70,R71...	1180	Resistor_SMD:...	RNCF0402BTE1K18 62.5mW Thin Film Resistor 50V ±25ppm/°C ...	C346633		30	JLPCPB	Extended	\$2.4750	<input type="checkbox"/>
R62	4.7	Capacitor_SM...	AECR0402F4R70T9 63mW Thick Film Resistors 50V ±1% ±250pp...	C352412		30	JLPCPB	Extended	\$0.0570	<input type="checkbox"/>
R49,R54	0.01惟3W	Resistor_SMD:...	PA2512FKE7W0R01E 2W 10mQ ±50ppm/°C ±1% 2512 Current Sen...	C375688		5	JLPCPB	Extended	\$0.4555	<input type="checkbox"/>
C41,C42,C43	47uF25VX7R	Capacitor_SM...	GRM31CR61E476ME44L 25V 47uF X5R ±20% 1206 Multilayer Cerami...	C403725		6	JLPCPB	Extended	\$1.8810	<input type="checkbox"/>
D7,D9,D10,D12,D...	PTVS22VS1UR	PowerIC:TVS_...	PTVS22VS1UR,115 0.1uA 400W 35.5V 24.4V 22V 26.9V SOD-12...	C553393		14	JLPCPB	Extended	\$3.2172	<input type="checkbox"/>
D11,D13,D16,D17	LED	LED_SMD:LED...	19-217/BHC-ZL1M2RY/3T 5mA 468nm Colorless transparency -40°C~...	C72041		8	JLPCPB	Basic	\$0.1432	<input type="checkbox"/>
R57,R73	17k8	Capacitor_SM...	RMCF0402FT17K8 62.5mW Thick Film Resistors 50V ±100ppm/...	C77605		30	JLPCPB	Extended	\$0.0900	<input type="checkbox"/>
U1	BMP390L/B...	PowerIC:XDCR...	BMP388 LGA-10 Pressure Sensors ROHS	C779278		2	1 My Parts 1 JLPCPB	Extended	\$2.5451	<input type="checkbox"/>
D2,D3,D4,D5	Zener3V3	Diode_SMD:D_...	ZMM3V3-M 2uA@1V 85Q Single 3.1V~3.5V 500mW 3.3V ...	C8056		8	JLPCPB	Basic	\$0.0888	<input type="checkbox"/>
U5	W25Q16JVS	Package_SO:S...	W25Q16JVSSIQ SOIC-8-208mil NOR FLASH ROHS	C82317		2	JLPCPB	Extended	\$0.6614	<input type="checkbox"/>
Y1	12MHzX322...	Crystal:Crystal...	X322512MSB4SI 12MHz SMD Crystal Resonator 20pF ±10ppm...	C9002		2	JLPCPB	Basic	\$0.1688	<input type="checkbox"/>
U8,U12	TPD4EUSB30	Package_SON:...	TPD4EUSB30DQAR 8V 1A (8/20us) 5.5V (Max) 7V Unidirectional ...	C90627		4	JLPCPB	Extended	\$2.1128	<input type="checkbox"/>
C23,C30,C31,C32	10uF16VX7R	Capacitor_SM...	CL10A106MA8NRNC 25V 10uF X5R ±20% 0603 Multilayer Cerami...	C96446		8	JLPCPB	Basic	\$0.1872	<input type="checkbox"/>
J16	XT60-M	PowerIC:AMAS...	XT60 - Power Connectors ROHS	C98733		2	JLPCPB	Extended	\$0.5830	<input type="checkbox"/>
U11	MPM54304-...	PowerIC:MPM5...	MPM54304GMN-0002 Buck Switching Regulator IC Positive Adjusta...	C9900037420		2	My Parts	Extended	\$0.00	<input type="checkbox"/>

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