


















































































catlin_rp2040_gerbbers_20230406

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Automatically saved, last updated on 7 April, 07:31

Top Side Total 57 parts detected 57 Parts confirmed

Upload BOM/CPL

Uploaded BOM Data				Review Matched Parts						
Top Designator	Comment	Footprint	Matched Part Detail	Qty	Source	Lib Type	Total Cost	<input type="checkbox"/> Select 		
U9	MAX77960x06	PowerIC:MAX7...	MAX77960EFV06+ C1020018 QFN-30(4x4) Power Management Specialize...	 2	My Parts	Extended	\$0.00 	<input type="checkbox"/>		
R13,R36,R42,R5...	1K	Capacitor_SM...	0402WGF1001TCE C11702 62.5mW Thick Film Resistors ±1% 1kΩ 0402 ...	 14	JLCPCB	Basic	\$0.0070 	<input type="checkbox"/>		
C62,C63,C65,C6...	22uF25VX7R	Capacitor_SM...	CL31A226KAHNNNE C12891 25V 22uF X5R ±10% 1206 Multilayer Cerami...	 20	JLCPCB	Basic	\$1.0220 	<input type="checkbox"/>		
C39,C40,C45,C48	10uF35VX7R	Capacitor_SM...	CL31A106KBHNNNE C13585 50V 10uF X5R ±10% 1206 Multilayer Ceramic...	 8	JLCPCB	Basic	\$0.2536 	<input type="checkbox"/>		
U10	INA219BxD	Package_SO:S...	INA219AIDR C138706 SOIC-8 Current-Sensing Amplifiers ROHS	 2	JLCPCB	Extended	\$2.3320 	<input type="checkbox"/>		
U7	TPH3R704PL	PowerIC:TRAN...	TPH3R704PL,L1Q C141553 40V 92A 81W 3.7mΩ@10V,46A N Channel D...	 2	My Parts	Extended	\$0.00 	<input type="checkbox"/>		
L1	3.3uHDR127...	Inductor_SMD:...	SMMS1360-3R3M C149526 16A 3.3uH ±20% SMD Power Inductors ROHS	 2	JLCPCB	Extended	\$1.0940 	<input type="checkbox"/>		
C31,C33,C34,C4...	10nF50VX7R	Capacitor_SM...	CL05B103KB5NNNC C15195 50V 10nF X7R ±10% 0402 Multilayer Cerami...	 22	JLCPCB	Basic	\$0.0264 	<input type="checkbox"/>		
C28,C29	220pF50VX7R	Capacitor_SM...	0402B221K500NT C1530 50V 220pF X7R ±10% 0402 Multilayer Cera...	 4	JLCPCB	Basic	\$0.0044 	<input type="checkbox"/>		
C25,C26,C51	33pF6VCOG	Capacitor_SM...	0402CG330J500NT C1562 50V 33pF COG ±5% 0402 Multilayer Ceramic...	 6	JLCPCB	Basic	\$0.0066 	<input type="checkbox"/>		
C7,C17,C18,C19,C...	1uF50VX5R	Capacitor_SM...	CL10A105KB8NNNC C15849 50V 1uF X5R ±10% 0603 Multilayer Ceramic ...	 20	JLCPCB	Basic	\$0.1000 	<input type="checkbox"/>		
CONN1,CONN2	SM04B-SRS...	RP2040:JST_S...	SM04B-SRSS-TB(LF)(SN) C160404 1x4P 1 SR/SZ 1mm 4 Copper Alloy - Wire To ...	 5	JLCPCB	Extended	\$0.8780 	<input type="checkbox"/>		
C49	47nF30VX7R	Capacitor_SM...	CL10B473KB8NNNC C1622 50V 47nF X7R ±10% 0603 Multilayer Cerami...	 2	JLCPCB	Basic	\$0.0078 	<input type="checkbox"/>		
J14	USB_C_Rece...	Connector_US...	TYPE-C-31-M-12 C165948 5A 1 16 Female Type-C SMD USB Connector...	 2	JLCPCB	Extended	\$0.4266 	<input type="checkbox"/>		
C41,C42	220nF16VX7R	Capacitor_SM...	CL05B224KO5NNNC C16772 16V 220nF X7R ±10% 0402 Multilayer Ceram...	 4	JLCPCB	Basic	\$0.0204 	<input type="checkbox"/>		
R82,R85,R88	0R	Resistor_SMD:...	1206W4F0000T5E C17888 250mW Thick Film Resistors ±1% 0Ω 1206 C...	 6	JLCPCB	Basic	\$0.0180 	<input type="checkbox"/>		
C46,C47,C50,C77	4.7uF16VX5R	Capacitor_SM...	CL10A475KO8NNNC C19666 16V 4.7uF X5R ±10% 0603 Multilayer Cerami...	 8	JLCPCB	Basic	\$0.0728 	<input type="checkbox"/>		
IC1	RP2040_QF...	RP2040:QFN5...	RP2040 C2040 264KB 30 ARM Cortex-M0 133MHz LQFN-5...	 2	JLCPCB	Extended	\$2.0844 	<input type="checkbox"/>		
Q1,Q3,Q5,Q8,Q9	AO3400A	Package_TO_S...	AO3400A C20917 30V 5.7A 26.5mΩ@10V,5.7A 1.4W N Channel ...	 10	JLCPCB	Basic	\$0.7870 	<input type="checkbox"/>		
SW4	CKPCM12SM...	Button_Switch...	PCM12SMTR C221841 SMD Slide Switches ROHS	 2	JLCPCB	Extended	\$0.8840 	<input type="checkbox"/>		
D1,D7,D17	D_Schottky	Diode_SMD:D_...	SS54 C22452 40V 550mV@5A 5A SMA(DO-214AC) Schott...	 6	JLCPCB	Basic	\$0.2778 	<input type="checkbox"/>		
R50,R51	226K	Capacitor_SM...	AC0402FR-07226KL C226354 62.5mW Thick Film Resistors ±1% 226kΩ 04...	 30	JLCPCB	Extended	\$0.0390 	<input type="checkbox"/>		
R7,R8,R9,R10,R11...	330	Resistor_SMD:...	0603WAF3300T5E C23138 100mW Thick Film Resistors ±1% 330Ω 0603...	 20	JLCPCB	Basic	\$0.0200 	<input type="checkbox"/>		
R21,R25,R31,R33...	4K7	Resistor_SMD:...	0603WAF4701T5E C23162 100mW Thick Film Resistors ±1% 4.7kΩ 060...	 12	JLCPCB	Basic	\$0.0120 	<input type="checkbox"/>		
R57	4.7	Capacitor_SM...	0603WAF470KT5E C23164 100mW Thick Film Resistors ±1% 4.7Ω 0603 ...	 2	JLCPCB	Basic	\$0.0028 	<input type="checkbox"/>		
R43,R47	10	Capacitor_SM...	0402WGF100JTCE C25077 62.5mW Thick Film Resistors ±1% 10Ω 0402 ...	 4	JLCPCB	Basic	\$0.0020 	<input type="checkbox"/>		
R15,R16,R18,R19,...	27R	Capacitor_SM...	0402WGF270JTCE C25100 62.5mW Thick Film Resistors ±1% 27Ω 0402 ...	 30	JLCPCB	Extended	\$0.0150 	<input type="checkbox"/>		
R1,R2,R3,R4,R5,R...	10K	Capacitor_SM...	0402WGF1002TCE C25744 62.5mW Thick Film Resistors ±1% 10kΩ 040...	 38	JLCPCB	Basic	\$0.0228 	<input type="checkbox"/>		
R14,R22,R29,R38...	200K	Capacitor_SM...	0402WGF2003TCE C25764 62.5mW Thick Film Resistors ±1% 200kΩ 04...	 20	JLCPCB	Basic	\$0.0100 	<input type="checkbox"/>		
R40,R56,R90,R93	110K	Capacitor_SM...	0603WAF1103T5E C25805 100mW Thick Film Resistors ±1% 110kΩ 060...	 8	JLCPCB	Basic	\$0.0080 	<input type="checkbox"/>		
R23,R26,R30,R37...	1M	Capacitor_SM...	0402WGF1004TCE C26083 62.5mW Thick Film Resistors ±1% 1MΩ 0402...	 12	JLCPCB	Basic	\$0.0060 	<input type="checkbox"/>		
Q2,Q4,Q6,Q7	DMP3007SCG	Package_SON:...	DMP3007SCG-7 C260899 30V 50A 6.8mΩ@10V,11.5A 2.4W P Channel ...	 8	My Parts	Extended	\$0.00 	<input type="checkbox"/>		
U3	PCF8523T	Package_SO:S...	PCF8523T/1,118 C2651516 SOP-8 Real-time Clocks (RTC) ROHS	 2	JLCPCB	Extended	\$3.3946 	<input type="checkbox"/>		
U1	LSM6DSOXTR	PowerIC:PQFN...	LSM6DSOTR C2655100 LGA-14(2.5x3) Attitude Sensor/Gyroscope R...	 2	JLCPCB	Extended	\$6.4318 	<input type="checkbox"/>		
J11	Micro_SD_C...	Connector_Car...	TF-102-18 C266610 -25°C~+85°C 1.6mm Gold Deck MicroSD car...	 2	JLCPCB	Extended	\$0.2208 	<input type="checkbox"/>		
R58,R70,R72,R78...	8660	Capacitor_SM...	ARG02BTC8661 C2684545 62.5mW Thin Film Resistor ±0.1% 8.66kΩ 04...	 30	JLCPCB	Extended	\$0.6780 	<input type="checkbox"/>		
SW1,SW2,SW3	SW_SPST	Button_Switch...	TS-1095PS-A9B3-C3D2 C2834949 NO Brick nogging SPST 250gf@±30gf SMD ...	 6	JLCPCB	Extended	\$0.3306 	<input type="checkbox"/>		
F1	FuseHolder	Fuse:Fusehold...	XF-508P-B C2935468 Plugin Fuse Holders ROHS	 2	JLCPCB	Extended	\$0.6088 	<input type="checkbox"/>		
IC2	CYPD3177-2...	PowerIC:QFN5...	CYPD3177-24LQXQ C2959321 Controller QFN-24 USB ICs ROHS	 2	My Parts	Extended	\$0.00 	<input type="checkbox"/>		

C1,C2,C3,C4,C5,...	100nF25VX7R	Capacitor_SM...	CL05B104KB54PNC 50V 100nF X7R ±10% 0402 Multilayer Ceram...	C307331		52	JLCPCB	Basic	\$0.3536	<input type="checkbox"/>
Y1	32.768kHz	Crystal:Crystal...	Q13FC1350000400 32.768kHz 12.5pF ±20ppm SMD3215-2P Cry...	C32346		2	JLCPCB	Basic	\$0.3976	<input type="checkbox"/>
R65,R66,R71,R73...	1180	Resistor_SMD:...	RNCF0402BTE1K18 62.5mW Thin Film Resistor ±0.1% 1.18kΩ 04...	C346633		30	JLCPCB	Extended	\$2.4750	<input type="checkbox"/>
R44,R49	0.01μ3W	Resistor_SMD:...	PA2512FKE7W0R01E 2W 10mΩ ±1% 2512 Current Sense Resistors...	C375688		5	JLCPCB	Extended	\$0.4675	<input type="checkbox"/>
C35,C36,C37	47uF25VX7R	Capacitor_SM...	GRM31CR61E476ME44L 25V 47uF X5R ±20% 1206 Multilayer Cerami...	C403725		6	JLCPCB	Extended	\$1.8564	<input type="checkbox"/>
U5	LIS3MDLTR	PowerIC:LIS3M...	LIS3MDLTR LGA-12(2x2) Hall Sensor ROHS	C478483		2	JLCPCB	Extended	\$5.6826	<input type="checkbox"/>
D2,D3,D4,D5	Zener3V3	Diode_SMD:D_...	BZV55B3V3 Single 3.23V~3.37V 500mW SOD-80 Zener ...	C545375		10	JLCPCB	Extended	\$0.1710	<input type="checkbox"/>
D6,D9,D11,D13,D...	PTVS22VS1UR	PowerIC:TVS_...	PTVS22VS1UR,115 35.5V 24.4V 22V SOD-123W TVS ROHS	C553393		12	JLCPCB	Extended	\$2.9556	<input type="checkbox"/>
D15,D16,D20	LED_BLUE	LED_SMD:LED...	19-217/BHC-ZL1M2RY/3T 465nm~475nm blue 110mW 0603 Light Emit...	C72041		6	JLCPCB	Basic	\$0.1074	<input type="checkbox"/>
D10,D12	LED_GREEN	LED_SMD:LED...	19-217/GHC-YR1S2/3T 520nm~535nm Emerald 110mW 0603 Light ...	C72043		4	JLCPCB	Basic	\$0.1056	<input type="checkbox"/>
R52,R68,R91	17k8	Capacitor_SM...	RMCF0402FT17K8 62.5mW Thick Film Resistors ±1% 17.8kΩ 04...	C77605		30	JLCPCB	Extended	\$0.0900	<input type="checkbox"/>
U2	BMP390L/B...	PowerIC:XDCR...	BMP388 LGA-10(2x2) Pressure Sensors ROHS	C779278		2	My Parts	Extended	\$0.00	<input type="checkbox"/>
U6	W25Q16JVS	Package_SO:S...	W25Q16JVSSIQ SOIC-8-208mil NOR FLASH ROHS	C82317		2	JLCPCB	Extended	\$0.5990	<input type="checkbox"/>
Y2	12MHzX322...	Crystal:Crystal...	X322512MSB4SI 12MHz 20pF ±10ppm ±30ppm SMD3225-4P ...	C9002		2	JLCPCB	Basic	\$0.1680	<input type="checkbox"/>
U8,U12	TPD4EUSB30	Package_SON:...	TPD4EUSB30DQAR 7V 8V Unidirectional 5.5V DFN-10(1x2.5) ES...	C90627		4	JLCPCB	Extended	\$2.0812	<input type="checkbox"/>
C23	10uF16VX7R	Capacitor_SM...	CL10A106MA8NRNC 25V 10uF X5R ±20% 0603 Multilayer Cerami...	C96446		2	JLCPCB	Basic	\$0.0468	<input type="checkbox"/>
J19	XT60-M	PowerIC:AMAS...	XT60 - Power Connectors ROHS	C98733		2	JLCPCB	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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