

BOM

Category	MPN	Per	Manufacturer	Description
PCB	LAUNCHXL-F28069M PCB	1		4 layers PCB,Red Soldermask,white Silkscreen,Immersion gold,51mm*130.5mm,LAUNCH XL-F28069M PCB
MCU	TMS320F28069MPZT	1	TI	MCU 32-bit C2000 C28x RISC 128KB Flash 3.3V 100-Pin LQFP ,customer supply
Memory	93LC56BT-I/OT	1	Microchip	2K-Bit 128 x 16 2MHz,93LC56BT-I/OT,SOT-23-6,SMD
DC-DC	LMR62421XMFE/NOPB	1	TI	Conv DC-DC Single Step Up 2.7V to 5.5V 5-Pin SOT-23 T/R ,CUSTOMER SUPPLY
DC-DC	TPS62162DSGR	1	TI	Conv DC-DC Single Step Down 3V to 17V 8-Pin WSON EP T/R,CUSTOMER SUPPLY
Logic	SN74AHC1G32DBVR	2	TI	Gate, SN74AHC1G32DBVR, SOT23-5, SMD,Customer Supply
Logic	TXB0106PWR	1	TI	VOLTAGE-LEVEL TRANSLATOR WITH AUTO-DIRECTION SENSING AND ±15-kV ESD PROTECTION, TXB0106PWR, TSSOP-16, SMD,Cusomer Supply
Logic	SN74LV4052APW	1	TI	Analog Multiplexer Dual 4:1 16-Pin TSSOP Tube,CUSTOMER SUPPLY
Logic	SN74LVC2G07DBVR	1	TI	Buffer/Driver 2-CH Non-Inverting Open Drain CMOS 6-Pin SOT-23 T/R,CUSTOMER SUPPLY
Logic	SN74LVC1G04DCKR	1	TI	IC,SINGLE INVERTER GATE,SN74LVC1G04DCKR,SC70-5,SMD
Logic	SN74AHC1G02DBVR	1	TI	IC,NOR Gate 1-Element 2-IN CMOS,SN74AHC1G02DBVR,SO T23-5,SMD
Interface	SN65HVD234D	1	TI	IC,3.3V CAN Transceiver with Sleep Mode,SN65HVD234D,SOIC-8,SMD,Customer Supply

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Interface	FT2232HQ-REEL	1	FTDI	IC,Dual High Speed USB to Multipurpose UART/FIFO IC,FT2232HQ-REEL,QFN-64,SMD
Interface	TS5A3153DCUR	2	TI	Analog Switch Single SPDT 8-Pin VSSOP T/R,CUSTOMER SUPPLY
Interface	TS5A23159DGSR	1	TI	Analog Switch Dual SPDT 10-Pin VSSOP T/R ,CUSTOMER SUPPLY
Isolator	ISO7231CDWR	1	TI	IC DGTL ISO 3CH CMOS 16SOIC,CUSTOMER SUPPLY
Isolator	ISO7240CDWR	1	TI	IC DGTL ISO 4CH CMOS 16SOIC,CUSTOMER SUPPLY
Thick film Resistor	RC0402JR-070RL	4	YAGEO	RES,0R,+/-5%,1/16W,SMD0402
Thick film Resistor	RC0402JR-07120RL	1	YAGEO	RES,120R,+/-5%,1/16W,SMD0402
Thick film Resistor	RC0402JR-07330RL	4	YAGEO	RES,330R,+/-5%,1/16W,SMD0402
Thick film Resistor	RC0402JR-07820RL	4	YAGEO	RES,820R,+/-5%,1/16W,SMD0402
Thick film Resistor	RC0402JR-071KL	6	YAGEO	RES,1K,+/-5%,1/16W,SMD0402
Thick film Resistor	RC0402JR-072K2L	6	YAGEO	RES,2K2,+/-5%,1/16W,SMD0402
Thick film Resistor	RC0402JR-0710KL	7	YAGEO	RES,10K,+/-5%,1/16W,SMD0402
Thick film Resistor	RC0402FR-0712KL	1	YAGEO	RES,12K,+/-1%,1/16W,SMD0402
Thick film Resistor	RC0402FR-0730K1L	1	YAGEO	RES,30K1,+/-1%,1/16W,SMD0402
Thick film Resistor	RC0402JR-07100KL	1	YAGEO	RES,100K,+/-5%,1/16W,SMD0402
Ceramic Capacitor	GRM1555C1H821JA01D	1	Murata	CAP,820PF,+/-5%,C0G,50V,SMD0402
Ceramic Capacitor	GRM155R71C104KA88D	23	Murata	CAP,100NF,+/-10%,X7R,16V,SMD0402
Ceramic Capacitor	GRM155R60J225ME15D	14	Murata	CAP,2.2UF,+/-20%,X5R,6.3V,SMD0402
Ceramic Capacitor	GRM32DR71E106KA12L	2	Murata	CAP,10UF,+/-10%,X7R,25V,SMD1210
Ceramic Capacitor	CC1210KKX5R7BB226	1	YAGEO	CAP,22UF,+/-10%,X5R,16V,SMD1210
Ceramic Capacitor	GRM155R60J475ME47	3	Murata	CAP,4.7UF,+/-20%,X5R,6.3V,SMD0402

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Ceramic Capacitor	CL05A335MR5NNNC	1	Samsung	CAP,3.3uF,+/-20%,X5R,4V,SMD0402
Ceramic Capacitor	GRM1555C1H360JA01D	2	Murata	CAP,36pF,+/-5%,C0G,50V,SMD0402
Inductor	CDRH2D18/HPNP-2R2NC	1	Sumida	Power Inductor,Magnetic shielded,2.2uH,1.6A,0.06ohm,3.0X3.0X1.8mm,SMD
Inductor	CDRH3D16/HPNP-3R3NC	1	Sumida	Power Inductor,Magnetic shielded,3.3uH,1.4A,0.085ohm,3.8X3.8X1.6mm,SMD
Ferrite Bead	BLM15AG601SN1D	2	Murata	Ferrite Bead,600ohm@100MHz,+/-25%,300mA,0.6ohm,SMD0402
Ferrite Bead	BLM15PD600SN1D	1	Murata	Ferrite Bead,60ohm@100MHz,+/-25%,1700mA,0.06ohm,SMD0402
Ferrite Bead	BLM15AG221SN1D	1	Murata	Ferrite Bead,220ohm@100MHz,+/-25%,300mA,0.6ohm,SMD0402
LED	19-217/R6C-AL1M2VY/3T	2	Everlight	LED,Brilliant Red,Water Clear,20mA,SMD0603
LED	19-217/G7C-AN1P2/3T	2	Everlight	LED,Super Yellow Green,Water Clear,20mA,SMD0603
LED	19-217/BHC-AN1P2/3T	2	Everlight	LED,Blue,Water Clear,20mA,SMD0603
Diode	1N5819HW-7-F	1	Diodes	Diode,Schottky Diode,1N5819HW-7-F,40V,1A,SOD-123,SMD
Polyswitch	SMD1812P050TF	1	PTTC	Polyswitch,SMD1812P050TF,15V,Ihold=0.5A,Itrip=1A,0.5ohm,SMD1812
Crystal	7D12000182BTAF60Q5	1	Interquip	Crystal,7D12000182BTAF60Q5,12MHz,+/-20PPM,18PF,HC-49S,SMD
Pin Header	P6E02A-602530-B1	7	CHI-BAN	Connector,Pin Header,Straight,Male,1x2Pin,2.54MM pitch,6.06,3.00,Gold Flash 1u, black,DIP
Pin Header	P6E03A-602530-B1	2	CHI-BAN	Connector,Pin Header,Straight,Male,1x3Pin,2.54MM pitch,6.06,3.00,Gold Flash 1u, black,DIP

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Pin Header	P101-1*05SGF-116A-NX	2	Townes	Connector,Pin Header,Straight,Male,1x5Pin,2.54MM pitch,6.06,3.00,Gold Flash 1u, black,DIP
Pin Socket	CRD-081413-A-G	4	Major League	Connector,Pin Socket,Straight,Female,2x10Pin,2.54MM pitch,8.5,9.92,Gold Flash 1u, black,DIP
USB Connector	UBF11-03	1	JXT	Connector,MiniUSB AB port,5 Position,Right Angle,Gold Flash 1u, black,SMD
Shunt	MJ501-EOGF-B-K	7	Townes	Connector,Shunt,2Pin,2.54MM Pitch,6MM Height,Gold Flash 1u,black
Tacticle Switch	TP-1138K9-BE1125	1	Toneparts	Switch,Tacticle,160gf+/-50gf,black housing,black plunger, 6*6*4.3MM,SMD
DIP Switch	DSIC03LSGET	1	KE	Switch,DIP SWITCH,3 Position,2.54MM Pitch,black housing,white plunger,SMD
Thick film Resistor	RC0402FR-071KL	6	YAGEO	RES,1K,+/-1%,1/16W,SMD0402
Ceramic Capacitor	GRM155R71H102KA01D	6	Murata	CAP,1NF,+/-10%,X7R,50V,SMD0402
ESD bag	Anti-static bag 180*130mm	1		Anti-static bag 180*130mm ,
Label	700/SCH, Label,11mm*7mm	1		700/SCH Label,11mm*7mm

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S No	Package	Value	Working Voltage	Reference
1				
2	LQFP-100		1.71~1.995V	U1
3	SO-23-6	2Kb	2.5~5.5V	U8
4	SOT23-5		2.7V to 5.5V	U12
5	WSO-8		3V to 17V	U17
6	SOT23-5		2~5.5V	U13,U14
7	TSSOP-16		1.2~5.5V	U2
8	TSSOP-16		2~5.5V	U10
9	SOT23-6		1.65~5.5V	U9
10	SC70-5		1.65 V ~ 5.5 V	U18
11	SOT23-5		2 V ~ 5.5 V	U4
12	SO-8		3.3V	U3

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13	QFN-64		1.62V to 1.98V	U6
14	VSSOP-8		1.65~5.5V	U11, U15
15	VSSOP-10		1.65~5.5V	U16
16	SO-16		3.15~5.5V	U7
17	SO-16		3.15~5.5V	U5
18	0402	0R	50V	R15, R33, R43, R44
19	0402	120R	50V	R34
20	0402	330R	50V	R26, R27, R38, R39
21	0402	820R	50V	R1, R4, R5, R46
22	0402	1K	50V	R22, R23, R36, R37, R40, R41
23	0402	2K2	50V	R2, R6, R8, R9, R10, R31
24	0402	10K	50V	R3, R11, R12, R14, R35, R42, R45
25	0402	12K	50V	R24
26	0402	30K1	50V	R17
27	0402	100K	50V	R47
28	0402	820PF	50V	C25
29	0402	100NF	16V	C35, C36, C37, C38, C39, C40, C42, C43, C46, C47, C48, C49
30	0402	2.2UF	6.3V	C1, C2, C5, C6, C19, C20, C21, C22, C23, C26, C27, C28, C29, C30
31	1210	10UF	25V	C41, C44
32	1210	22UF	16V	C45
33	0402	4.7UF	6.3V	C8, C10, C11

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34	0402	3.3uF	4V	C15
35	0402	36pF	50V	C17, C18
36	3.0X3.0mm	2.2uH		L7
37	3.8X3.8mm	3.3uH		L6
38	0402	600ohm		L1, L2
39	0402	60ohm		L4
40	0402	220ohm		L3
41	0603		1.7~2.3V	D8, D9
42	0603		1.75~2.35V	D1, D4
43	0603		1.7~2.2V	D7, D10
44	SOD-123		40V	D3
45	1812		15V	F1
46	HC-49SMD	12MHz		Q3
47	DIP			JP1,JP2,JP3,JP4,JP5,JP6,JP7
48	DIP			J9,J12

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49	DIP			QEP_A, QEP_B
50	DIP			J1,J2,J3,J4,J5,J6,J7,J8
51	SMD			CON1
52				U\$1, U\$2, U\$9, U\$10, U\$11, U\$12, U\$13,
53	SMD-4			S2
54	SMD			S1
55	0402	1K	50V	R13,R29,R48-R51
56	0402	1NF	50V	C50-C55
57				
58				