

PCB BOM GROUPED



Source Data From: LPCB235_RLOOP_FCU.PrjPCB
 Project: LPCB235_RLOOP_FCU.PrjPCB
 Variant: STANDARD

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#	Designator	Quantity	LDL_NUMBER	Description
1	C1, C3, C4, C5, C6, C7,	106	LCA016	Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016]
2	C2, C9, C10, C19, C24,	33	LCA073	Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073]
3	C13, C17, C45, C46, C52	5	LCA097	Capacitor, Ceramic Chip, 100uF, 6.3V, X5R, 20%, SMD 1210 [LCA097]
4	C26, C27, C28,	5	LCA019	Capacitor, Ceramic Chip, 10pF, 50V, 5%, SMD 0603 [LCA019]
5	C30, C55, C56	3	LCA072	Capacitor, Ceramic Chip, 10nF (0.01uF), 25V, 5%, SMD 0402 [LCA072]
6	C60, C69, C71, C74	4	LCA098	Capacitor, Ceramic Chip, 1uF, 50V, SMD 0805 [LCA098]
7	C63	1	LCA111	Capacitor, Ceramic Chip, 470pF, 50V, 10% X7R, SMD 0603 [LCA111]
8	C70	1	LCA015	Capacitor, Ceramic Chip, 1nF (1000pF), 50V, 10%, SMD 0603 [LCA015]
9	C126	1	LCA093	Capacitor, Ceramic Chip, 4.7uF, 25V, 10%, SMD 0805 [LCA093]
10	C128_TH1, C128_TH2,	8	LCA152	Capacitor, Ceramic Chip, 1uF, 50V, 10% (X5R), SMD 0603 [LCA152]
11	CE1, CE4, CE5	3	LCA071	Capacitor, Aluminum Electrolytic, 330uF, 35V, 20%, SMD (10mm x 10mm) [LCA071], Capacitor, Aluminum
12	CN1, CN3	2	LCN249	Connector, Molex CMC, Automotive Socket, 80 Circuits, 2 Pockets
13	CT1, CT2, CT3, CT6,	12	LCA039	Capacitor, Tantalum, 22uF, 16V, 10%, SMD TC3528 (BCASE) [LCA039]
14	D1, D2, D6, D7, D11, D12,	7	LIC345	Diode, Small Signal, SMD SOD-323F [LIC345]
15	D3, D4, D9	3	LIC189	Diode, General Purpose Rectifier, 3A, 200V, SMD DO-214AB [LIC189]
16	D5	1	LIC367	Diode, Schottky Rectifier, 60V, 1A, SMD DO-214AC [LIC367]
17	D10	1	LIC006	Diode, Small Signal, 0.2A, 85V, SMD SOT-23 [LIC006]
18	IC1, IC6	2	LIC393	IC, Accelerometer, 3-Axis, 3.3V, I2C, SMD QFN16 [LIC393]
19	IC2, IC19, IC45	3	LIC233	IC, Voltage Regulator, 400mA, 3.3V LDO, SMD DPAK [LIC233]
20	IC3_OGA1, IC3_OGA2,	6	LIC542	IC, RS422 Tx Rx, SMD SOIC 8
21	IC4	1	LIC105	IC, High Speed CAN Transceiver, SMD SOIC8 [LIC105]
22	IC5, IC7, IC8, IC9, IC11,	8	LIC472	IC, SPI to UART bridge [LIC472]
23	IC10, IC20	2	LIC328	IC, Voltage Regulator, 400mA, 5V LDO, SMD DPAK [LIC328]
24	IC12, IC15	2	LIC016	LED, SMD, 0805 Green [LIC016]
25	IC13	1	LIC508	IC, Oscillator Module, 1.8432MHz, 3.3V, SMD [LIC508]
26	IC14	1	LIC278	IC, CPU, RM48 Safety CPU, SMD NFBGA337 [LIC278]
27	IC16	1	LIC364	IC, Power Management IC, SMD [LIC364]
28	IC17	1	LIC289	IC, SPI IO Expander, 16bit, SMD SSOP28 [LIC289]
29	IC18, IC25, IC26, IC28,	8	LIC543	IC, RS485 Isolator, SMD SOIC 16 [LIC543]
30	IC23, IC24, IC35, IC43,	5	LIC165	IC, RS232 Line Driver, 3.3V, SMD TSSOP16 [LIC165], IC, RS232 Line Driver, 3.3V, SMD TSSOP16 [LIC165],

31	IC27	1	LIC374	IC, Ethernet Transceiver, Precision Real Time Protocol, SMD LQFP48 [LIC374]
32	IC34	1	LIC388	IC, Oscillator Module, 25MHz, 3.3V, SMD [LIC388]
33	IC36	1	LIC160	IC, Hex Inveter, Schmitt Trigger, SMD [LIC160]
34	IC37	1	LIC550	IC, ADC / DAC, SMD [LIC550]
35	IC38_TH1, IC38_TH2,	8	LIC549	IC, Isolation Amplifier, SMD SOIC8 [LIC549]
36	IC39_TH1, IC39_TH2,	10	LIC570	IC, OpAmp, 1-Channel, Low Noise, SMD SOT-23-5 [LIC570]
37	IC42	1	LIC580	IC, Watchdog, SMD [LIC580]
38	IC46	1	LIC525	IC, Multiplexer Select 2-1 [LIC525]
39	IC48_ML1, IC48_ML2	2	LIC547	Diode, Zener, 3.6V, 0.225W, SMD [LIC083]
40	IC49	1	LIC292	IC, Relay Driver, 28V Industrial, SMD SOT23 [LIC292]
41	IC50, IC51	2	LIC336	IC, Logic OR Gate, Single 2 Input, SMD SOT353 [LIC336]
42	L1	1	LIN017	Ferrite, EMI/RFI Suppression, SMD 0805 [LIN017]
43	L2, L4	2	LIN031	Inductor, 10uH, 20%, 5.7A, SMD [LIN031]
44	L3	1	LIN032	Transformer, Signal Transformers, SMD [LIN032]
45	PW2	1	LPW030	Non Isolated DC/DC Module
46	Q1, Q2	2	LIC366	Transistor, NPN, 20V 8A 770mW 95MHz, SMD [LIC366]
47	R1, R2, R7, R8, R9, R12,	74	LRE030	Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030]
48	R3	1	LRE077	Resistor, Ceramic Chip, 121R, 0.33W, 1%, SMD 1210 [LRE077]
49	R4, R13, R14, R15, R44,	6	LRE037	Resistor, Ceramic Chip, 47R, 0.1W, 1%, SMD 0603 [LRE037]
50	R5, R6, R10, R39_OGA1,	22	LRE027	Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027]
51	R11	1	LRE058	Resistor, Ceramic Chip, 4K7, 0.1W, 1%, SMD 0603 [LRE058]
52	R21_OGA1, R21_OGA2,	6	LRE190	Resistor, Thick Film, 120R, 0.25W, 5%, SMD 0805 [LRE190]
53	R22_ML1, R22_ML2	2	LRE228	Resistor, Ceramic Chip, 162R, 0.33W, 1%, SMD 1210 [LRE228]
54	R23, R26, R28	3	LRE120	Resistor, Ceramic Chip, 30K, 0.1W, 1%, SMD 0603 [LRE120]
55	R27	1	LRE176	Resistor, Ceramic Chip, 18K, 0.1W, 1%, SMD 0603 [LRE176]
56	R29	1	LRE028	Resistor, Ceramic Chip, 5.6K, 0.1W, 1%, SMD 0603 [LRE028]
57	R33, R34, R35, R36, R37,	8	LRE106	Resistor, Ceramic Chip, 1K0, 0.063W, 1%, SMD 0603 [LRE106]
58	R45	1	LRE142	Resistor, Array, 49.9R, 0.063W, 1%, SMD 0603 [LRE142]
59	R47	1	LRE147	Resistor, Ceramic Chip, 10K, 0.0625W, 1%, SMD 0402 [LRE147]
60	R50, R84, R85	3	LRE144	Resistor, Ceramic Chip, 4.75K, 0.0625W, 1%, SMD 0402 [LRE144]
61	R51, R52, R53, R54	4	LRE093	Resistor, Ceramic Chip, 49.9R, 0.0625W, 0.5%, SMD 0402 [LRE093]
62	R68, R72, R77	3	LRE219	Resistor, Thick Film, 330R, 0.100W, 75V, 1%, SMD 0603 [LRE219]
63	R86_TH1, R86_TH2,	8	LRE220	Resistor, Thick Film, 2.7K, 0.100W, 75V, 1%, SMD 0603 [LRE220]
64	R91_ML1, R91_ML2	2	LRE167	Resistor, Ceramic Chip, 1.78K, 0.1W, 1%, SMD 0603 [LRE167]
65	R92_ML1, R92_ML2	2	LRE140	Resistor, Ceramic Chip, 3.3K0, 0.1W, 1%, SMD 0603 [LRE140]
66	RLY2	1	LSW007	Relay, DPDT, Non Latching, 12VDC Coil, 2A Rating, PTH
67	X1	1	LIC110	Crystal, 10MHz, 18pF, SMD [LIC110]
Approved		Notes		