

Bill of Materials

MT Alpha

Source Data From:

MT Alpha VER5.1.PrjPcb

Project:

MT Alpha VER5.1.PrjPcb

BOM Version

5

PCB Version

5.1

Creation Date:

2019-04-15

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16:42:00

Historic

V1

First BOM version (with PAW3212)

V2

U2 changed to ADNS2080
R2, R38 changed to 220R

V3

Voltage changed on 10uF, 1uF and 100nF capacitors
incorrect quantity on 220R resistor corrected

V4

R35 changed to 180R

V5

R37 changed to 270K
R19 changed to 3.3R
R33 Changed to 47R

Footprint	Comment	Designator	Description	Quantity
0402	500R07S1RSBV4T	C1	Capacitor NP0 5% 50V	1
0805	10uF	C2, C12, C15, C21, C33, C34, C35, C38, C39, C40, C44, C46, C49	Capacitor X5R 10% 6.3V	13
0402	1uF	C3	Capacitor X5R 10% 6.6V	1
0402	18pF	C5	Capacitor NP0 5% 50V	1
0402	100nF	C6, C7, C8, C9, C10, C11, C13, C14, C17, C19, C22, C28	Capacitor X7R 10% 16V	23
0603	1nF	C20	Capacitor X7R 10% 25V	1
0402	15pF	C23, C24, C25	Capacitor NP0 5% 50V	3
0603	2.7nF	C26, C27	Capacitor X7R 10% 25V	2
0603	100pF	C36	Capacitor NP0 5% 50V	1
0402	33pF	C43	Capacitor NP0 5% 50V	1
TSMG2700	VSMG2700	D1	IR LED	1
HSDL-X420	HSDL-5420011	D2	IR Diode Detector	1
Sot-23-diod	BA516	D3	Diode	1
HSDL-X420	HSDL-4420011	D4	IR LED	1
SC-90	PMEG3005EJ	D5, D7	Diode	2
0603	VCU060050BL1RP	D30, D31, D32, D33, D34, D35	TVS	6
FCI-10118194	USB-Micro FCI 10118194	J1	USB micro	1
CF07	CF07	JF1	FFC Connector	1
0402	L-07C6N8JV6T	L2	Inductor	1
LTST-C19HE1WT	LTST-C19HE1WT	LED1	SMD Chip RGB LED	1
MOLEX_52610_26	05261026T2	P2	FFC Connector	1
Molex_53261_02	WM7620CT	P3	Ball connector	1
1734248-7	1734248-4	P6	FFC Connector	1
1206	Q2CA020FF2E	P1C2	PTC	1
SC70	DMG1013UW	Q2, Q7	PMOSFET	2
Sot23-6	FDC654P	Q5	P-Channel 1.8V MOSFET	1
0603	47K	R1, R3	Resistor 1%	2
0603	100R	R27, R39	Resistor 1%	2
0603	180K	R4	Resistor 1%	1
0402	0R	R5	Resistor 1%	1
0603	3.3K	R19	Resistor 1%	1
0603	10R	R7	Resistor 1%	1
0603	3.3K	R9, R20, R21	Resistor 1%	3
0603	1M	R10, R15	Resistor 1%	2
0603	10K	R12, R23, R25, R32, R55	Resistor 1%	5
0603	4.7K	R13	Resistor 1%	1
0603	100K	R14, R22, R24, R29, R30, R58, R59	Resistor 1%	7
0603	220K	R16, R17, R18	Resistor 1%	3
0603	270K	R37	Resistor 1%	1
0603	36K	R26	Resistor 1%	1
0603	12R	R28	Resistor 1%	1
0603	47R	R33	Resistor 1%	1
0603	1K	R34	Resistor 1%	1
0603	220R	R2, R38	Resistor 1%	2
0603	68K	R36	Resistor 1%	1
0603	180R	R35	Resistor 1%	1
0603	2.7k	R56	Resistor 1%	1
SW-TRAPPER	02F-01F	S1	Push Micro Switch	1
PCM125MTR	PCM125MTR	SW1	Slide switch	1
QFN56_0.4	CY8C4127LQI-BL473	U1	PRoC BLE 48-MHz ARM Cortex-M0	1
ADNS2080	ADNS2080	U2	Optical Navigation sensor	1
TLF941	TLF941	U3, U4	Optical Vane	2
QFN3X3-10	LM3658SD-AIN0PB	U5	Li-Ion Battery charger	1
SC70-5	LMV331	U6	Single Low power comparator	1
TSOP6P640-14AM	LMV824PWE	U7	Low-Power J-FET Quad Operational Amplifier	1
VONT2020	VONT2020	U8	Reflective Optical Sensor	1
QFN44	ATXMEGA32A4U-MH	U9	816-bit Atmel XMEGA Microcontroller	1
SC723-5	STLQ019MG3R	U10	LED	1
QFN3X3-10	RS318L-321	U11	LED Driver	1
XTAL 3.2X2.5	ECS-240-8-36CKM	X1	Crystal 24MHz	1
ECK-31B	Q 0,032768-JTX310-12.5-2	X3	Crystal 32.768KHz	1
