

























## **Component list**

Source Data From:

Project:

Variant:

Report Date:

Print Date:

Description	Footprint	Quantity	Designator
	SAMTEC_SSW-106- 22-F-D-VS	2	A_BOTTOM1, B_BOTTOM1
	SAMTEC_TSM-106- 03-F-DV	2	A_TOP1, B_TOP1
FERRITE BEAD 600 OHM 300mA	R0603	1	B1
Dual Lithium Ion Cell Holder	BATT_18650_KEY STONE_1048	1	BAT1
MS621FE RECHARGEABLE COIN CELL BACKUP	BATT_COINCELL_ RECHARGEABLE	1	BAT2
	C0603	15	C1, C2, C3, C4, C8-1, C8-2, C11, C12, C13, C14, C19, C23-1, C23-2, C40, C46
	C0603	6	C5, C6, C7, C15, C16, C17
	C0603	36	C9-1, C9-2, C10, C18, C20, C21-1, C21-2, C22-1, C22-2, C24-1, C24-2, C25-1, C25-2, C26-1, C26-2, C27-1, C27-2, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C41, C43, C44, C48, C50, C51, C52, C53
100UF SMD CAP CERAMIC	C1206	3	C39, C54, C55

	C0603	1	C42
	C0603	1	C45
	C0603	2	C47, C49
Atmel CAN Bus Transciever	8SOIC150	2	CANA1, CANB1
DIODE SCHOTTKY 0.5A 20V SOD-123	SOD123	3	D1, D2, D7
LED 0805 GREEN 20MA	0805_Diode	4	D3, D4, D5, D6
LED 0805 RED 20MA	0805_Diode	3	D8, D9, D10
	R1206	1	F1
Isolator Interface IC 2.5 kV Bidirectional I2C Isolator 1.7MHz	8SOIC150	2	l1, l2
CONN HEADER 3POS .100" SNGL SMD	CONN_1x3_100MIL _RA_SMT	1	J1
Through Hole Micro USB Connector	CONN_USBMICRO B_10118194- 0001LF	1	J2
Press-Fit Unthreaded Spacers, 7/32" OD, 1/8" Long	#4_PRESSFIT_FO OT_1/4	6	K1, K2, K3, K4, K5, K6
INDUCTOR POWER 1.5UH 7.5A SMD	SMD5230	2	L1, L2
INDUCTOR 100UH 270MA 1210 SMD	C1210	1	L3
Male Header, Pitch 1.27 mm, 2 x 5 Position, Height 6.12 mm, RoHS, Tube	SMTC-FTSH-105- 01-L-DV-K_V	1	P1
MOSFET P-CH 20V 35A PPK	POWERPAK_1212- 8_SINGLE	1	Q1
MOSFET N-CH 25V 5.8A SOT23	3SOT23	1	Q2
	R0603	16	R1, R6, R7, R11, R19, R20, R21, R22, R23, R38, R40, R43, R44, R48, R52, R59
	R0603	1	R2
	R0603	2	R3, R9
	R0603	1	R4
	R0603	2	R5, R12
	R0603	1	R8
	R0603	1	R10
	R0603	4	R13, R14, R15, R16
	R0603	1	R17
	R0603	1	R18
	R0603	6	R24, R25, R34, R35, R36, R37
	R0603	8	R26, R29, R30, R31, R32, R33, R39, R41
	R0603	2	R27, R28

	R0603	4	R47, R49, R50, R51
	R0603	5	R53, R54, R55, R56, R58
	R0603	1	R57
SWITCH SLIDE SPDT R/A 5A	SWITCH_500SSP1 S1M6QEA	1	SW1
SWITCH TACTILE SPST-NO 0.05A 12V	SWITCH_B3U- 1000P	1	SW3
BUCKBOOST TPS63070RNM, RNM0015A	TPS63070	2	U1, U3
IC REG LDO 3.3V .2A SOT23-5	5SOT23	2	U2-1, U2-2
Peak-Peak Signal Buzzer Single Tone 4kHz Magnetic 2 ~ 4V 78dB @ 3V, 10cm	BUZ_SMT-0540-T- 7-R	1	U4
ESP8266 Module by Expressif	ESP-WROOM-02	1	U5
200G Accelcerometer	LGA_CC-14-1	2	U6-1, U6-2
Pressure Sensor 4.35 PSI ~ 18.13 PSI (30 kPa ~ 125 kPa) Absolute 10-WFLGA	8 pin LGA	2	U7-1, U7-2
Bosch BMI088	BMI088	2	U8-1, U8-2
4 Pin Bidirectional levelshifter 5v-3.3v	14TSSOP65	1	U9
	SOT1762-1	1	U10
MICROSD CARD HOLDER, PUSH-PUSH	MICROSD_CARD_ SOCKET	1	U11
Atmel SAM ARM Cortex M4	SAMD TQFP-64	1	U12
	6SOT23	1	U13
CRYSTAL 32.768 KHZ 12.5 PF SMD	XTAL_TXC_9HT10	1	X1

## Bill of Materials for BOM

## SpaceSalmon\_2.0.BomDoc

SpaceSalmon\_2.0.PrjPcb

None

4/18/2019

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18-Apr-19

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Supplier Order Qty 1	Manufacturer 1
2	Samtec
2	Samtec
1	Taiyo Yuden
1	Keystone Electronics
1	Seiko
15	Taiyo Yuden
6	Samsung
36	Kyocera AVX
3	TDK

1	Yageo
1	Kyocera AVX
2	Murata
2	Microchip
3	ON Semiconductor / Fairchild
4	Osram Opto
3	Osram Opto
1	Eaton
2	Texas Instruments
1	Samtec
1	Amphenol FCI
6	McMaster
2	Vishay Dale
1	Taiyo Yuden
1	Samtec
1	Vishay Siliconix
1	Infineon
16	Yageo Phycomp
1	Yageo
2	Yageo
1	Yageo Phycomp
2	Yageo
1	Yageo
1	Yageo
10	Yageo
1	Yageo Phycomp
1	Yageo
10	Yageo
10	Yageo
2	Yageo

10	Yageo
10	Yageo
1	Yageo
1	ITT C&K
1	Omron
2	Texas Instruments
2	Microchip Micrel
1	Projects Unlimited
1	Espressif Systems
2	Analog Devices
2	Bosch Sensortec
2	Bosch Tools
1	Texas Instruments
1	NXP Freescale
1	3M
1	Microchip
1	STMicroelectronics
1	TXC

Document [SpaceSalmon_	_2.0.BomDoc]		

Manufacturer Part Number 1	Supplier Unit Price 1	Supplier Subtotal per Board 1	mn Name Error:' Supplier Ordermn Name Error:' Manufac
SSW-106-22-F-D-VS-K	1.43	2.86	
TSM-106-03-F-DV	0.762	1.52	
BK1608HW601-T	0.1	0.1	
1048	4.17	4.17	
MS621FE-FL11E	2.04	2.04	
LMK107BJ106MALTD	0.431	6.47	
CL10A226MO7JZNC	0.87	5.22	
06035C-104KAT2A	0.119	4.28	
C3216X5R1E336M160AC	1.37	4.11	

CC0603KRX5R7BB475	0.43	0.43	
06031C472JAT2A	0.31	0.31	
GRM1885C1H220JA01D	0.11	0.22	
ATA6561-GAQW-N	0.55	1.1	
MBR0520L	0.35753	1.07	
LGR971-KN-1	0.36	1.44	
Q62702P5182	0.36	1.08	
CC12H5A-TR	1.01	1.01	
ISO1540DR	4.8	9.6	
TSM-103-01-L-SH	0.308	0.308	
10118194-0001LF	0.45	0.45	
92985A630	0.41	2.46	
IHLP2020CZER1R5M11	2.39	4.78	
LBC3225T100KR	0.21	0.21	
FTSH-105-01-F-DV-K	1.7	1.7	
SI7615ADN-T1-GE3	0.86	0.86	
IRFML8244TRPBF	0.44	0.44	
RC0603FR-0710KL	0.024	0.384	
RC0603FR-07470KL	0.1	0.1	
RC0603FR-07100KL	0.1	0.2	
RC0603FR-07150KL	0.1	0.1	
RC0603FR-0720KL	0.1	0.2	
RC0603FR-07680KL	0.1	0.1	
RC0603FR-07130KL	0.13001	0.13001	
RC0603FR-07100RL	0.024	0.096	
RC0603FR-074K7L	0.1	0.1	
RC0603FR-07300RL	0.1	0.1	
RC0603FR-070RL	0.021	0.126	
RC0603FR-070RL	0.021	0.168	
RC0603FR-07330RL	0.1	0.2	

RC0603FR-07100KL	0.024	0.096	
RC0603FR-071KL	0.024	0.12	
RC0603FR-071ML	0.1	0.1	
1101M2S3AQE2	4.17	4.17	
B3U-1000P	1	1	
TPS630701RNMT	2.76	5.52	
MIC5365-3.3YD5T5	0.27	0.54	
SMT-0540-T-7-R	3.56	3.56	
ESP-WROOM-02	5	5	
ADXL375BCCZ	11.23	22.46	
BMP388	3.93	7.86	
BMI088	7.99	15.98	
TXB0104PWR	1.32	1.32	
MC33797BPEWR2	5.97	5.97	
2908-05WB-MG	3.88	3.88	
ATSAME51J20A-AU	5.4	5.4	
USBLC6-2SC6	0.49	0.49	
9HT10-32.768KEZF-T	0.73	0.73	



mn Name Error:' Manufacturer Part Nunmn Name Error:' Supplier Unit P	Supplier Currency 1	Total Price
	USD	2.86
	USD	1.52
	USD	0.1
	USD	4.17
	USD	2.04
	USD	6.47
	USD	5.22
	USD	4.28
	USD	4.11

USD	0.43
USD	0.31
USD	0.22
USD	1.1
USD	1.07
USD	1.44
USD	1.08
USD	1.01
USD	9.6
USD	0.308
USD	0.45
USD	2.46
USD	4.78
USD	0.21
USD	1.7
USD	0.86
USD	0.44
USD	0.384
USD	0.1
USD	0.2
USD	0.1
USD	0.2
USD	0.1
USD	0.13001
USD	0.096
USD	0.1
USD	0.1
USD	0.126
USD	0.168
USD	0.2

USD	0.096
USD	0.12
USD	0.1
USD	4.17
USD	1
USD	5.52
USD	0.54
USD	3.56
USD	5
USD	22.46
USD	7.86
USD	15.98
USD	1.32
USD	5.97
USD	3.88
USD	5.4
USD	0.49
USD	0.73

TOTAL PRICE

144.438