

Sterile IV Warming

Bill of Material for					
On 7/6/2020 at 2:57:02 PM					
Comment	Pattern	Quantity	Components		
				Price Per component	Price Per assembly
18650	Trustfire 18650	1	*	\$2.900	\$2.900
Switch - Toggle - SMD (11x10x11mm)(Latching)	Toggle Switch - SMD - 11x10x11mm	1	SW2	SMD (11x10x11mm)(Latching) 1A	\$0.180
Switch	Tactal Switch - SMD (3mm x 4mm x 2mm) - duplicate	1	SW1	SMD (3mm x 4mm x 2mm)	\$0.030
Micro	Micro USB - (all pins) - Holes	1	USB1	Micro	\$0.053
10 Pin Atmel Cortex	IDC - 1.27mm - 10 Pin - Atmel Cortex - SMD	1	IDC1	10 Pin 1.27mm	\$0.053
BH-18650-PC2	BH-18650-PC2	1	Batt1	18650 - Battery Retainer (1Cell)	\$0.190
SPX3819M5-L-3-3	SOT23-5	1	U1	3.3V (EXAR) (SOT23-5)	\$0.120
MCP73831	SOT-23-OT5_N	1	U3	Miniature Single-Cell, Fully Integrated Li-Io	\$0.432
MBR120	SOD123	1	D1	Schottky Diode, 1A, 20V RRM, 0.34V FWD	\$0.110
ATSAMD21G18A - AU	ATSAMD21G18A - AU	1	U2		\$2.590
06N03LA	Mosfet - DPAK - Generic (Min)	1	Q1	N-Channel, Dpak, 25V, 50A	\$0.180
PWR	LED - 1206- Blue	1	LED1	SMD	\$0.030
Heating	LED - 0603 - Red	1	LED3	SMD	\$0.030
CHRG	LED - 0603 - Orange	1	LED5	SMD	\$0.030
D8	LED - 0603 - Green	1	LED2	SMD	\$0.030
Temp Good	LED - 0603 - Green	1	LED4	SMD	\$0.030
					0
32.768kHz	Crystal Oscillator - FC-135	1	XTAL1	32.768kHz, FC-135, 2Pin	\$0.200
100k	0805 Resistor	3	R3, R13, R14	Generic, SMD Resistor	\$0.010
10k	0805 Resistor	4	R6, R8, R9, R10	Generic, SMD Resistor	\$0.010
1k	0805 Resistor	4	R4, R5, R7, R11	Generic, SMD Resistor	\$0.010
2.2k	0805 Resistor	2	R1, R2	Generic, SMD Resistor	\$0.010
2k	0805 Resistor	1	R12	Generic, SMD Resistor	\$0.010
MF-PSMF050X-2	0805 Fuse - Gold	1	Fuse1	0805, 6V, 0.5A, (4)	\$0.067
NTCS0603E3103HHT	0603 Thermistor	2	Temp In, Temp Out	Thermistor - R-B (10K)((3960K) - 0603 - 1%	\$0.180
100nF	0805 Capacitor	3	C4, C5, C8	Generic, SMD	\$0.014
10uF	0805 Capacitor	3	C1, C2, C10	Generic, SMD	\$0.014
1uF	0805 Capacitor	2	C3, C9	Generic, SMD	\$0.014
22pF	0805 Capacitor	2	C6, C7	Generic, SMD	\$0.014
		44		Total Cost Per assembly	\$7.89