

AMS Bill of Materials

Qty	Mouser Part	Description	Unit Price	Total Price
2	538-70543-0040	6-PIN SL Locking Header, tin-plate	\$0.74	\$1.48
2	538-50-57-9706	6-PIN SL Locking Plug w/TPA	\$0.75	\$1.50
2	538-73838-0006	6-PIN SL TPA Piece	\$0.26	\$0.52
12	538-16-02-0096	SL Socket 24-30 AWG	\$0.06	\$0.72
1	567-657-20ABP	TO-220 Vertical Board Mount Heatsink	\$1.66	\$1.66
1	512-TIP102TU	TO-220 TIP102 Darlington NPN Power Transistor	\$0.71	\$0.71
1	652-PWR220T-20-R750F	TO-220 Resistor 20watt 0.75ohms 1%	\$4.00	\$4.00
1	579-PIC16LF1827-I/SO	PIC16LF1827 8-bit Microcontroller	\$1.43	\$1.43
1	720-LSR976-NR-1	LED - SMD Super Red, 633nm, 180mcd, 20mA	\$0.04	\$0.04
1	720-LYR976-PS-36	LED - SMD Yellow, 588nm 280mcd, 20mA	\$0.04	\$0.04
1	720-LGR971-KN-1	LED - SMD Green, 570nm 26mcd, 20mA	\$0.04	\$0.04
1	512-MBR0520L	Schottky Power Rect 0.5A	\$0.10	\$0.10
1	652-SRN8040-100M	SMD Inductor 10uH 20%	\$0.39	\$0.39
1	859-LTV-357T	Transistor Output Isolator	\$0.19	\$0.19
1	634-SI8600AB-B-IS	Silicon Labs Dual I2C Isolator Interface	\$3.18	\$3.18
1	579-MCP1825S-3302EDB	LDO Voltage Regulators 500 mA 3.3V	\$0.51	\$0.51
1	579-MCP6242-E/SN	MCP6242 Dual 1.8V 650kHz Op-Amp	\$0.39	\$0.39
1	579-MCP9700AT-E/TT	MCP9700 LinearTemp Sensor SOT-23-3	\$0.31	\$0.31
2	534-655	6-32 Threaded Banana Jack	\$2.21	\$4.42
2	567-173-7-220P	Thermal Interface Pad TO-220 .007" GRAY	\$0.42	\$0.85
2	532-7721-7PPS	Insul Shoulder Washer (for TO-220 tabs)	0.18	\$0.36

Qty	Digikey Part	Description	Unit Price	Total Price
1	LT1307BCS8#PBF-ND	LT1307B	\$4.15	\$4.15
1	311-1.02MCRCT-ND	1.02M RES 1%	\$0.01	\$0.01
1	311-604KCRCT-ND	324K RES 1%	\$0.01	\$0.01
1	RMCF0805FT200KCT-ND	200K RES 1%	\$0.01	\$0.01
2	RMCF0805FT100KCT-ND	100K RES 1%	\$0.01	\$0.02
1	RMCF0805FT470RCT-ND	470 RES 1%	\$0.01	\$0.01
1	RMCF0805FT100RCT-ND	100 RES 1%	\$0.01	\$0.01
3	RMCF0805FT10K0CT-ND	10K RES 1%	\$0.01	\$0.03
1	RMCF0805FT383RCT-ND	383 RES 1%	\$0.01	\$0.01
2	RMCF0805FT200RCT-ND	200 RES 1%	\$0.01	\$0.02
1	RMCF0805FT36R0CT-ND	36 RES 1%	\$0.01	\$0.01
1	SAM1027-50-ND	100 pitch pin header - 6 pin section	\$2.43	\$2.43
5	490-1666-1-ND	0.1UF CAP	\$0.02	\$0.10
1	311-1126-1-ND	680pf CAP	\$0.02	\$0.02
1	490-1691-1-ND	1UF CAP	\$0.02	\$0.02
3	490-3905-1-ND	10UF CAP	\$0.02	\$0.06

Qty	McMaster-Carr Part	Description	Unit Price	Total Price
2	92510A303	1/4 OD No. 6 ID 1/4 length Al spacer	\$0.23	\$0.46
2	90633A007	6-32 Thin lock nut	\$0.02	\$0.04
2	90126A509	No. 6 Flat Washer	\$0.01	\$0.02
1	91772A108	4-40x3/8 SS Phillips Pan head	\$0.04	\$0.04
1	91831A005	4-40 SS Nut	\$0.04	\$0.04

Qty	Advanced Circuits Part	Description	Unit Price	Total Price
1	AMS-2014	AMS Printed Circuit Board Rev 0.2	\$33.00	\$33.00

Total: \$63.36