Hardhat Bom

Manufacturer	Part	Description	Ref Desgs	Qty	Use	Budgetary Cost	Budgetary Cost Ext Bought Fron
PCB + Mechanical				,		, , , , , , , , , , , , , , , , , , , ,	, and the second
PCB				1		3.6	3.6
Standoff	91780A127	Aluminum Female Threaded Hex Standoff 1/4" Hex, 1/2" Length, 6-32 Screw Size		4		0.27	
Standoff	93505A443	Aluminum Male-Female Threaded Hex Standoff 1/4" Hex, 5/8" Length, 6-32 Screw Size		4		0.46	
Screws	90272A144	Zinc-Pltd Stl Pan Head Phillips Machine Screw 6-32 Thread, 1/4" Length, packs of 100		4		0.02	
Ociews	90212A144	Zino-i ita oti i ari riead i fillilips iviaciline ociew 0-02 filliead, 1/4 Lengui, packs oi 100				0.02	0.00
Actives							0
	01/7000/4/T4 O /DIA	0.7000.44.6.4				0.05	-
ON	2N7002WT1G/BKN	2n7002 Mofet		2	FET	0.05	
							0
TI	OPA2141AID	10MHz, Single Supply, Low Noise, JFET Precision Amplifier		-	4-20mA driver	3.4	
Linear Technology	LT1678CS8#PBF	IC OPAMP R-R I/O DUAL LN 8SOIC		0	0-10 out, 4-20 out	4.5	
or							0
STMicro	LM358YDT	IC OP AMP DUAL LP 8-SOIC		3	4-20mA driver, 0-10	0.34	
or							0
Analog Devices	OP282GSZ	IC OPAMP JFET 4MHZ DUAL LP 8SOIC		0		2.14	0
							0
TI	REF3333AIDBZR	3.3V 30ppm/C Drift, 3.9uA, SOT23-3, SC70-3 Voltage Reference		1 -	4-20mA ref	2.3	2.3
TI	ADS1015IDGST	ADC (A/D Converters) 12B ADC with Int MUX PGA Comp Osc & Ref		1.	ADC	2.8	2.8 Mouser
TI	SN65HVD12D	IC TRANSCEIVER RS485 3.3V 8-SOIC		1	RS485 driver	2.1	
Microchip	MCP4728-E/UN	IC DAC 12BIT W/I2C 10-MSOP			4-20mA and 0-10	2.5	
						2.0	0
Fairchild	FDC5614P	MOSFET P-CH 60V 3A SSOT-6		2	4-20mA driver	0.6	-
NXP	GTL2002DP,118	IC XLATR 2BIT BI-DIREC OD 8TSSOP			Logic Level	0.0	
TI	SN74AVC4T245PWR	IC BUS TRANSCVR 4BIT 16TSSOP			Logic Level	0.7	
					Power		
	LM25011MY/NOPB	IC BUCK ADJ 2A 10MSOP				4.86	0 ,
Diodes/Zetex	ZLDO1117-3.3	3.3V LDO			Power	0.3	
Linear Technology	LT3082ETS8#TRMPBF	IC VOLT REG 200MA ADJ SOT23-8			4-20mA supply	3.07	
Toshiba	TLP176GF-ND	PHOTOCOUPLER GAAS IRED/FET 4-SOP		2		1.88	
Diodes/Zetex	B360A-13-F	DIODE SCHOTTKY 60V 3A SMA		2		0.44	
Fairchild	FLZ3V3B	DIODE ZENER 3.3V 500MW SOD-80		4		0.11	
NXP	BAT754A,215	Schottky (Diodes & Rectifiers) DIODE SCHOTTKY		2		0.18	0.36 Mouser
STMicro	M24C01-WMN6P	EEPROM		1		0.17	0.17 Avnet
							0
Passives							0
Susumu	RG3216P-3000-B-T1	300 ohm .1% 1206 0.25W		2	4-20mA	0.36	0.72 DigiKey
Panasonic	ECJ-4YF1H106Z	CAP 10UF 50V CERAMIC F 1210		1		0.86	0.86 DigiKey
Panasonic	ELL-6PG220M	Power Inductors 22UH SHIELDED COIL CHOKE		1		0.72	
MuRata		Cap 4.7uF 16VDC X7R 10% SMD 0805 Embossed T/R		2		0.17	
TDK	C1608X7R1H103M	Multilayer Ceramic Capacitors (MLCC) - SMD/SMT 0603 50volts 0.01uF X7R 20%		1		0.004	
TDK	C3216Y5V1E475Z/0.85	Multilayer Ceramic Capacitors (MLCC) - SMD/SMT 1206 4.7uF 25V Y5V		4		0.06	
StackPole	RMCF0603FT9K76	RES 9.76K OHM 1/10W 1% 0603 SMD		1		0.01	
StackPole	RMCF0603FT10K0	RES 10K OHM 1/10W 1% 0603 SMD		10		0.005	3 ,
				10			
Yageo	311-1.91MCRCT-ND	RES 1.91M OHM 1/8W 1% 0805 SMD		2		0.01	9 3
Panasonic	ERJ-3EKF5492V	RES 54.9K OHM 1/10W 1% 0603 SMD				0.04	0)
Panasonic	ERJ-3EKF6651V	RES 6.65K OHM 1/10W 1% 0603 SMD		2		0.04	0.08 DigiKey
StackPole	RMCF0603JT200KCT- ND	RES 200K OHM 1/10W 5% 0603 SMD		1		0.007	0.007 DigiKey
				-			9 3
Yageo	RT0603DRD0740K2L	RES 40.2K OHM 1/10W .5% 0603 SMD		2		0.09	3 - ,
Bourns	MF-NSMF012-2	PTC RESETTABLE .12A 30V 1206		2		0.21	
StackPole	RMCF0603JT100K	RES 100K OHM 1/10W 5% 0603 SMD		1		0.01	0 ,
CTS	73L3R20J	RES .20 OHM 1/10W 5% 0805		1		0.12	
Susumu	RG1608P-101-B-T5	RES 100 OHM 1/10W .1% 0603 SMD		2		0.25	0.5 DigiKey
Connectors							
Tyco	284512-3	TERM BLOCK HEADER 3POS R/A 3.5MM		2		0.54	
Тусо	284506-3	TERM BLOCK PLUG 3POS 3.5MM		2		1.32	2.64 DigiKey
Tyco	284512-2	TERM BLOCK HEADER 2POS R/A 3.5MM		6		0.39	2.34 DigiKey
Тусо	284506-2	TERM BLOCK PLUG 2POS 3.5MM		6		0.77	
CUI	PJ-002AH	CONN PWR JACK 2.1X5.5MM HIGH CUR		1		0.42	0 ,
Sullins	PPPC142LFBN-RC	CONN HEADER FMAL 28PS.1" DL GOLD		1		1.85	
Molex	90131-0134	CONN HEADER 28POS .100" STR TIN		1		2.64	9 3
ITIOIOA	00 10 I 0 IOT	CONTINUE DELICED CO. 100 CITA III		- 1		2.04	Z.UT DIGITES

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Manufacturer	Part	Description	Ref Desgs	Qty	Use	Budgetary Cost	Budgetary Cost Ext	Bought From
							54.901	