

bom

MicroLink V2 Bill of Materials						
Reference	Value	Qty	Footprint	Notes	Price	Cost
C17	1u	1	Capacitor_SMD:C_0805_2012Metric_Pad1.18x1.45mm_HandSolder		\$0.05	\$0.05
C1	10u Tant	1	Capacitor_SMD:Polarized_0805	For regulator	\$0.50	\$0.50
C2	10u Tant (ESR Range)	1	Capacitor_SMD:Polarized_0805	For regulator; 33mO to 2.2O!	\$0.74	\$0.74
C5,C7,C8,C9,C11,C19,C20	47u Tant	7	Capacitor_SMD:Polarized_0805		\$0.50	\$3.50
C3,C26	22n	2	Capacitor_SMD:C_0805_2012Metric_Pad1.18x1.45mm_HandSolder		\$0.05	\$0.10
C4,C27	10n	2	Capacitor_SMD:C_0805_2012Metric_Pad1.18x1.45mm_HandSolder		\$0.05	\$0.10
C6,C18,C21	0.1u	3	Capacitor_SMD:C_0805_2012Metric_Pad1.18x1.45mm_HandSolder		\$0.05	\$0.15
C10	47u	1	Capacitor_SMD:Polarized_0805	Optional DC block	\$0.05	\$0.05
D1,D3,D4	LED (B1701USD-20D000114U1930)	3	LED_SMD:LED_0805_2012Metric_Pad1.15x1.40mm_HandSolder	https://www.digikey.com/en/products/detail/harvatek-corporation/	\$0.11	\$0.33
D2	BAT54S	1	Package_TO_SOT_SMD:SOT-23		\$0.27	\$0.27
J1	Conn_01x07	1	Connector_PinHeader_2.54mm:PinHeader_1x07_P2.54mm_Vertical		\$0.05	\$0.05
J2	5-12V Supply	1	Connector_PinHeader_2.54mm:PinHeader_1x02_P2.54mm_Vertical		\$0.05	\$0.05
J3	Conn_01x20	1	Connector_PinHeader_2.54mm:PinHeader_1x20_P2.54mm_Vertical		\$0.05	\$0.05
J4	3.3V Output	1	Connector_PinHeader_2.54mm:PinHeader_1x02_P2.54mm_Vertical	For logger or other accessory	\$0.05	\$0.05
Q1	DMG2305UX-13 MOSFET	1	Package_TO_SOT_SMD:SOT-23-3		\$0.27	\$0.27
R1,R15	1.5k	2	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder		\$0.05	\$0.10
R2,R16	2.7k	2	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder		\$0.05	\$0.10
R3,R18,R19,R23	0R	4	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder		\$0.05	\$0.20
R26	0R	1	Resistor_SMD:R_1206	Being used as a cross-over	\$0.05	\$0.05
R4	570R	1	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder		\$0.05	\$0.05
R5,R6	10k	2	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder		\$0.05	\$0.10
RV1,RV2	10k	2	Pot Bournes 3362P		\$0.05	\$0.10
R8	200R	1	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder		\$0.05	\$0.05
R9	1k	1	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder		\$0.05	\$0.05
R24	1k	1	Resistor_THT	Needs to be easy to change/remove	\$0.05	\$0.05
R10,R11	330k 1%	1	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	Voltage divider, need 1%	\$0.15	\$0.15
R11	270k 1%	1	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	Voltage divider, need 1%	\$0.15	\$0.15
R12,R13	2.2k	2	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder		\$0.05	\$0.10
R17,R20,R22	220R	3	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder		\$0.05	\$0.15
R21	47R	1	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder		\$0.05	\$0.05
R25	33k	1	Resistor_THT:R_Axial_DIN0309_L9.0mm_D3.2mm_P2.54mm_Vertical		\$0.05	\$0.05
S1	Pico W	1	bruce-footprints:RPi_PicoW_SMD_TH		\$6.00	\$6.00
T1,T2	Transformer_1P_1S	2	bruce-footprints:CheapAudioTransformer		\$0.50	\$1.00
U1	LMV324 (Actually TLV9164)	1	Package_SO:TSSOP-14_4.4x5mm_P0.65mm		\$2.74	\$2.74
U2,U5	LTV-356T Optocoupler	2	Package_SO:SO-4_4.4x3.6mm_P2.54mm		\$0.49	\$0.98
U3	NCP1117-3.3_SOT223 Regulator	1	Package_TO_SOT_SMD:SOT-223-3_TabPin2		\$0.72	\$0.72
U4	MCP4725xxx-xCH DAC	1	Package_TO_SOT_SMD:SOT-23-6		\$1.27	\$1.27
U7	LM4040DBZ-3 Voltage Reference	1	Package_TO_SOT_SMD:SOT-23		\$0.72	\$0.72
SW0	SPST-NO	1	Switch:TS04-66-55-BK-160-SMT	https://www.digikey.com/en/products/detail/cui-devices/TS0	\$0.18	\$0.18
PC Board		1	JLPCPB		\$5.00	\$5.00
Power Conn	Anderson	1			\$1.00	\$1.00
Audio Out Conn	3.5mm	1			\$0.50	\$0.50
CESS Aviation Conn	8 Pin	1			\$1.00	\$1.00
TOTAL						\$28.87