

# PageMac SerialMP3 Module - Bill of Materials

QTY	Description	Value	Part #	Supplier	Supplier Part #	Price	Components
1	Atmega328P Micro		ATMEGA328P	DigiKey	ATMEGA328P-AU-ND	\$1.92	U2
1	Crystal - 12.288MHz		NX3225GA	DigiKey	887-1917-1-ND	\$0.73	Y2
1	LDO Voltage Regulator	2.8V	TLV70228	DigiKey	296-27891-1-ND	\$0.55	U5
1	LDO Voltage Regulator	3.3V	TPS73233	DigiKey	296-15812-1-ND	\$1.58	U4
1	MicroSD Socket			DigiKey	101-00660-68-6-1-ND	\$2.05	U6
1	microUSB Connector			DigiKey	609-4613-1-ND	\$0.43	U\$1
1	Mono Class-D Audio Amp		TPA2005D1	DigiKey	296-26876-1-ND	\$1.18	U3
1	MP3 Decoder		VS1003	SparkFun	COM-09398	\$4.95	U1
1	RCA Plug			DigiKey	PJLAN1X1U03X-ND	\$0.65	J5
1	Resonator - 8MHz			DigiKey	490-1195-1-ND	\$0.38	Y1
1	Capacitor - 0603	10u		DigiKey			C27
1	Capacitor - 0603	47nF		DigiKey			C23
2	Capacitor - 0603	10nF		DigiKey			C21, C22
2	Capacitor - 0603	20p		DigiKey			C9, C10
6	Capacitor - 0603	1u		DigiKey			C2, C4, C24, C25, C26, C28
16	Capacitor - 0603	.1u		DigiKey			C1, C3, C5, C6, C7, C8, C11, C12, C13, C14, C15, C16, C17, C18,
1	Resistor - 0603	1M		DigiKey			R4
1	Resistor - 0603	10		DigiKey			R11
1	Resistor - 0603	75k		DigiKey			R15
2	Resistor - 0603	10k		DigiKey			R1, R12
2	Resistor - 0603	20		DigiKey			R9, R10
2	Resistor - 0603	150k		DigiKey			R13, R14
3	Resistor - 0603	330		DigiKey			R16, R17, R18
5	Resistor - 0603	100k		DigiKey			R3, R5, R6, R7, R8
						Parts Total	\$14.42
						PCB	\$1.00
						Passives	\$3.00
						Total Cost	\$18.42