

References	Value	Quantity	Footprint
C2, C5, C9, C10, C12, C13, C16, C17, C18	0.1uf	9	0.1uf ceramic, 0.1", X7R, >=25v
C1, C6, C11, C15	33uf	4	33uf Al-Polymer radial, 3.50mm, >=25v (sub tantalum or electrolytic)
C7, C8, C19	10uf	3	10uf Al-Polymer radial, 0.1", >=35v (sub tantalum or electrolytic)
C3, C4	1uf	2	1uf ceramic, 0.1", X7R, >=25v
C14	.47uf	1	.47uf ceramic, 0.1", X7R, >=25v
R2, R3, R5, R7, R9, R10, R11, R12	330	8	1/4w 5% carbon film
R4, R6, R8	10K	3	1/4w 5% carbon film
R1	1K	1	1/4w 5% carbon film
D1	5V	1	LED_D5.0mm
D2	12VA	1	LED_D5.0mm
D3	5VA	1	LED_D5.0mm
D4	3.3VA	1	LED_D5.0mm
D5	LED1	1	LED_D3.0mm
D6	LED2	1	LED_D3.0mm
D7	LED4	1	LED_D3.0mm
D8	LED3	1	LED_D3.0mm
D9	LED5	1	LED_D3.0mm
U3, U12	LM7805	2	Can sub switching regulator
U5, U11	74LS540	2	DIP-20
U1	74HCT123	1	DIP-16
U2	LM7812	1	Can sub switching regulator
U4	GAL16V8	1	DIP-20
U6	LM3940	1	3.3v regulator, can sub switching
U7	74LS74	1	DIP-14
U8	74LS14	1	DIP-14
U9	74LS640	1	DIP-20
U10	74LS574	1	DIP-20
F1	500ma 5x20mm	1	5x20mm fast-blow glass fuse, Littelfuse 01000056Z clip (x2)
F2	1A 5x20mm	1	5x20mm fast-blow glass fuse, Littelfuse 01000056Z clip (x2)
F3	500ma	1	PTC fuse, BelFuse 0ZRR0050FF1E

TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18	TestPoint_Alt	18	Keystone compact test point, 5005-5009
RN1, RN2	10K	2	Resistor array, 8x10K, SIP9, Bourns 4610X-101-103LF
JP1	WRITE	1	1x3 0.1" male header
JP2	READ	1	1x3 0.1" male header
	H8_Bus	2	H8 bus 25-pin right angle connector
J1	LEDs	1	1x5 0.1" male header
J6	CONTROL	1	1x10 0.1" male header
J7	GAL OUTPUTS	1	1x10 0.1" male header
J8	Buffered A0-A7	1	1x8 0.1" male header
J9	POWER	1	Molex KK254 8-pin vertical header
J10	BIDIRECTIONAL I/C	1	1x10 0.1" male header
J11	OUTPUT PORT	1	1x10 0.1" male header
J12	INPUT PORT	1	1x10 0.1" male header
J17	GND	1	Solderless pin socket, 2x4, 0.1", Adafruit 2017
J18	12VA	1	Solderless pin socket, 2x4, 0.1", Adafruit 2017
J19	+5VA	1	Solderless pin socket, 2x4, 0.1", Adafruit 2017
J20	+3.3VA	1	Solderless pin socket, 2x4, 0.1", Adafruit 2017
J21	GND	1	Solderless pin socket, 2x4, 0.1", Adafruit 2017